

2SSO10168	Active	721866 Marilyn Harang	Certified
2SSO10168	Active	724327 L Barwacz	Certified
2SSO10168	Active	727124 Larry Barwacz	Certified
2SSO10168	Active	727686 Larry Barwacz	Certified
2SSO10168	Active	728867 Marilyn Harang	Certified
2SSO10168	Active	730056 Marilyn Harang	Certified
2SSO10168	Active	730474 Larry Barwacz	Certified
2SSO10168	Active	731108 Larry Barwacz	Certified
2SSO10168	Active	736179 Ray Bartolo	Certified
2SSO10168	Active	736620 Ray Bartolo	Certified
2SSO10168	Active	737741 Ray Bartolo / Marilyn Harang	Certified
2SSO10168	Active	737783 Ray Bartolo	Certified
2SSO10168	Active	738529 Ray Bartolo	Certified
2SSO10168	Active	740208 Ray Bartolo	Certified
2SSO10168	Active	741329 Marilyn Harang	Certified
2SSO10168	Active	742442 Ray Bartolo	Certified
2SSO10168	Active	742562 Ray Bartolo	Certified
2SSO10168	Active	742657 Ray Bartolo	Certified
2SSO10168	Active	743076 Ray Bartolo	Certified
2SSO10168	Active	743351 Ray Bartolo	Certified
2SSO10168	Active	745208 Ray Bartolo	Certified
2SSO10168	Active	745678 Ray Bartolo	Certified
2SSO10168	Active	747622 Ray Bartolo	Certified
2SSO10168	Active	748676 Ray Bartolo	Certified
2SSO10168	Active	749916 Ray Bartolo	Certified
2SSO10168	Active	749971 Ray Bartolo	Certified
2SSO10168	Active	750979 Ray Bartolo	Certified
2SSO10168	Active	751015 Ray Bartolo	Certified
2SSO10168	Active	754094 Ray Bartolo	Certified
2SSO10168	Active	755446 Marilyn Harang	Certified
2SSO10168	Active	755448 Ray Bartolo	Certified
2SSO10168	Active	755802 Ray Bartolo	Certified
2SSO10168	Active	755873 Ray Bartolo	Certified
2SSO10168	Active	756498 Marilyn Harang	Certified
2SSO10168	Active	757489 Ray Bartolo	Certified
2SSO10168	Active	758931 Ray Bartolo	Certified
2SSO10168	Active	759100 Marilyn Harang	Certified
2SSO10168	Active	760187 Ray Bartolo	Certified
2SSO10168	Active	762094 Ray Bartolo	Certified
2SSO10168	Active	763689 Ray Bartolo	Certified
2SSO10168	Active	764018 Ray Bartolo	Certified
2SSO10168	Active	764166 Ray Bartolo	Certified
2SSO10168	Active	764833 Marilyn Harang	Certified
2SSO10168	Active	765326 Marilyn Harang	Certified
2SSO10168	Active	765556 Ray Bartolo	Certified
2SSO10168	Active	766249 Ray Bartolo	Certified
2SSO10168	Active	766636 Ray Bartolo	Certified
2SSO10168	Active	767201 Ray Bartolo	Certified
2SSO10168	Active	767459 Ray Bartolo	Certified
2SSO10168	Active	767754 Ray Bartolo	Certified
2SSO10168	Active	767985 Ray Bartolo	Certified
2SSO10168	Active	768131 Ray Bartolo	Certified
2SSO10168	Active	772302 Ray Bartolo	Certified
2SSO10168	Active	772434 Ray Bartolo	Certified
2SSO10168	Active	772567 Ray Bartolo	Certified

[illegible]

	1318	646883
Redwood City, City of		198332
Redwood City		124789
Redwood city		676516
	1327	997237
	1030	589319
Redwood City		497712
Redwood City		698000
Redwood City		141966
Redwood City		800212
Redwood City		163149
Redwood City		437934
Redwood City		947816
Redwood City		546665
	1621	891486
Redwood City		729330
Redwood City		720512
Redwood City		504699
Redwood City		999428
Redwood City		159548
Redwood City		564437
Redwood City		147566
Redwood City		458903
Redwood City		230905
Redwood City		506749
Redwood City		262530
Redwood City		508725
Redwood City		291779
Redwood City		727950
	1500	938176
Residence / So. San Fran		194376
Redwood City		621218
Redwood City		709920
	856	262415
Redwood City		910503
So. San Francisco, CA		442903
	1621	628282
Redwood City		898933
Redwood City		166415
Redwood City		332199
Redwood City		369020
Redwood City		617729
	10:42	846175
	10:21	172019
Redwood City		275061
Redwood City		837054
Redwood City		479675
Redwood City		335823
Redwood City		586886
Redwood City		417053
Redwood City		496341
Redwood City		624123
Redwood City		837895
Redwood City		102151
Redwood City		890036

9-Jul-08		9-Jul-08	12/2/2010
6-Aug-08		12-Aug-08	8/12/2008
30-Sep-08		30-Sep-08	9/30/2008
9-Oct-08		9-Oct-08	10/9/2008
3-Nov-08		3-Nov-08	12/2/2010
2-Dec-08		2-Dec-08	12/10/2010
12-Dec-08		15-Dec-08	12/15/2008
27-Dec-08		27-Dec-08	12/27/2008
10-Apr-09		10-Apr-09	4/10/2009
22-Apr-09		22-Apr-09	4/22/2009
21-May-09		22-May-09	5/22/2009
21-May-09		22-May-09	5/22/2009
4-Jun-09		5-Jun-09	6/5/2009
29-Jun-09		29-Jun-09	6/29/2009
16-Jul-09		23-Jul-09	12/2/2010
4-Aug-09		4-Aug-09	8/4/2009
6-Aug-09		6-Aug-09	8/6/2009
7-Aug-09		7-Aug-09	8/7/2009
14-Aug-09		14-Aug-09	8/14/2009
19-Aug-09		19-Aug-09	8/19/2009
30-Sep-09		30-Sep-09	9/30/2009
16-Oct-09		16-Oct-09	10/16/2009
17-Dec-09		18-Dec-09	12/18/2009
22-Jan-10		22-Jan-10	1/22/2010
27-Feb-10		27-Feb-10	3/2/2010
2-Mar-10		2-Mar-10	3/2/2010
25-Mar-10		25-Mar-10	3/25/2010
26-Mar-10		26-Mar-10	3/26/2010
29-Jun-10	6/29/2010	29-Jun-10	6/29/2010
23-Jul-10	7/23/2010	23-Jul-10	1/26/2011
25-Jul-10	7/25/2010	25-Jul-10	7/25/2010
5-Aug-10	8/6/2010	6-Aug-10	8/6/2010
9-Aug-10	8/9/2010	9-Aug-10	8/9/2010
30-Aug-10	8/30/2010	22-Sep-10	12/16/2010
11-Oct-10	10/11/2010	11-Oct-10	10/11/2010
29-Nov-10	11/29/2010	29-Nov-10	11/29/2010
3-Dec-10	12/3/2010	3-Dec-10	12/3/2010
4-Jan-11	1/5/2011	5-Jan-11	1/5/2011
28-Jan-11	1/28/2011	28-Jan-11	2/3/2011
25-Feb-11	2/25/2011	25-Feb-11	2/25/2011
4-Mar-11	3/4/2011	4-Mar-11	3/4/2011
8-Mar-11	3/8/2011	8-Mar-11	3/8/2011
25-Mar-11	3/25/2011	6-Apr-11	4/6/2011
11-Apr-11	4/11/2011	11-Apr-11	4/11/2011
15-Apr-11	4/15/2011	15-Apr-11	4/15/2011
9-May-11	5/9/2011	9-May-11	5/9/2011
18-May-11	5/18/2011	18-May-11	5/18/2011
7-Jun-11	6/7/2011	7-Jun-11	6/7/2011
14-Jun-11	6/14/2011	14-Jun-11	6/14/2011
22-Jun-11	6/22/2011	22-Jun-11	6/22/2011
29-Jun-11	6/29/2011	29-Jun-11	6/29/2011
5-Jul-11	7/5/2011	5-Jul-11	7/5/2011
24-Oct-11	10/24/2011	24-Oct-11	10/24/2011
27-Oct-11	10/27/2011	27-Oct-11	10/27/2011
31-Oct-11	10/31/2011	31-Oct-11	10/31/2011

Category 3	200	200
Category 3	100	100
Category 1	850	0
Category 3	54	54
Category 3	220	200
Category 1	703	500
Category 3	95	95
Category 3	170	100
Category 3	110	0
Category 1	6000	0
Category 1	180	30
Category 3	150	150
Category 3	825	825
Category 3	840	840
Category 1	200	0
Category 3	54	54
Category 2	1500	1500
Category 3	50	50
Category 3	800	0
Category 3	200	200
Category 3	225	225
Category 3	35	35
Category 3	10	10
Category 3	68	68
Category 3	255	125
Category 3	25	25
Category 1	1025	0
Category 1	25000	10000
Category 3	495	495
Category 1	2196	0
Category 3	400	400
Category 3	100	100
Category 3	250	250
Category 1	94907	37800
Category 3	108	54
Category 3	35	35
Category 3	40	40
Category 3	80	80
Category 3	50	40
Category 3	3	3
Category 3	20	20
Category 3	2	2
Category 3	600	0
Category 3	20	20
Category 3	187	187
Category 3	50	50
Category 3	100	100
Category 3	60	60
Category 3	30	30
Category 3	25	0
Category 3	5	5
Category 3	20	20
Category 3	90	90
Category 3	30	30
Category 3	5	0

0 No	No
0 No	Yes
850 Yes	Yes
0 No	No
0 No	No
203 Yes	Yes
0 No	No
0 No	No
0 No	No
6000 Yes	Yes
150 Yes	Yes
0 No	Yes
0 No	Yes
0 No	Yes
200 Yes	Yes
0 No	No
0 No	Yes
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
1025 Yes	Yes
15000 Yes	Yes
0 No	No
2196 No	Yes
0 No	No
0 No	No
0 No	No
57107 Yes	Yes
0 No	No
0 No	No
0 No	No
0 No	Yes
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No

Not Applicable - Spill did not reach a separate storm drainpipe

1197 Davis st / 490 Oak av
in street at Redwood Shores Parkway approx. 300ft east of Shell Parkway
3623 Jefferson Ave.
3670 Altamont
350 Twin Dolphin
1055 Alameda de las Pulgas
524 Katherine
1245 Woodside Rd.
412 Myrtle St.
2458 Goodwin Ave.
844 Portwalk Place
1040 Silver Hill
26 Poplar
1260 Woodside Rd.
At 1121 Vera Ave near the deadend of Myrtle St
820 Fulton
72 Nevada
36 Arch
711 Hamilton
1324 James
2439 Hopkins
2510 El Camino Real
351 West Oakwood
2919 Hopkins Ave.
508 El Camino RI
530 El Camino RI
Behind 3962 Lonesome Pine (on Farmhill Blvd)
3692 Brandy Rock
1021 Hilton St.
831 Shepard Way
3659 Country Club
986 Woodside Rd.
909 Nob Hill Rd.
747 Davit Lane (Lift Station 10 location)
90 Alameda
718 Canyon
100 Marine Parkway, across from Oracle building
1517 Sierra St.
475 Seaport
1501 Tacoma
3716 Bret Harte
700 Bay Rd.
1807 Redwood Ave
836 Arlington Rd
628 Madison Ave.
1131 Lyons
3141 Oak Knoll
1523 Ebener
3514 Altamont
860 Seminole
422 Redwood
529 Harrison
22 Arch
404 South Place
2253 Roosevelt

37.47421	-122.22808 San Mateo
37.540056	122.234764 San Mateo
37.464444	122.250833 San Mateo
37.466806	122.253889 San Mateo
37.52006	-122.25756 San Mateo
37.463056	-122.245 San Mateo
37.482222	122.238611 San Mateo
37.458333	122.226667 San Mateo
37.476389	-122.242222 San Mateo
37.461111	-122.238889 San Mateo
37.538176	-122.250836 San Mateo
37.452222	-122.2525 San Mateo
37.475556	-122.222778 San Mateo
37.458333	-122.226944 San Mateo
37.473458	-122.236136 San Mateo
37.476667	-122.233056 San Mateo
37.480278	-122.249722 San Mateo
37.488889	-122.240278 San Mateo
37.487147	-122.213242 San Mateo
37.476667	-122.237222 San Mateo
37.479444	-122.249444 San Mateo
37.473333	-122.218056 San Mateo
37.468694	-122.218306 San Mateo
37.477548	-122.253455 San Mateo
37.489722	-122.239722 San Mateo
37.489722	-122.239167 San Mateo
37.45275	-122.258333 San Mateo
37.458611	-122.247639 San Mateo
37.482778	-122.21725 San Mateo
37.461942	-122.25914 San Mateo
37.459722	-122.249722 San Mateo
37.463056	-122.225278 San Mateo
37.461944	-122.251389 San Mateo
37.53385	-122.24582 San Mateo
37.482778	-122.255556 San Mateo
37.469444	-122.255833 San Mateo
37.52769	-122.26248 San Mateo
37.46536	-122.230556 San Mateo
37.502583	-122.210556 San Mateo
37.49509	-122.236819 San Mateo
37.459722	-122.253889 San Mateo
37.485125	-122.218277 San Mateo
37.46563	-122.23609 San Mateo
37.48481	-122.24918 San Mateo
37.47753	-122.2345 San Mateo
37.471389	-122.233944 San Mateo
37.472778	-122.258056 San Mateo
37.470833	-122.224722 San Mateo
37.466944	-122.251111 San Mateo
37.462778	-122.259444 San Mateo
37.473611	-122.226944 San Mateo
37.479722	-122.235222 San Mateo
37.489167	-122.240278 San Mateo
37.473611	-122.242222 San Mateo
37.464167	-122.240833 San Mateo

[illegible]

Spill at residential apartment building
 Spill caused by leaking Air Release Valve in Redwood Shores Parkway approx. 100 yds East of Shell Parkway
 Manhole in front of 3623 Jefferson Ave.
 SSO was discharging out of sewer lamphole
 SSO at sewer manhole in intersection
 Intersection of Alameda De Las Pulgas & Chesterton
 Just before intersection of Katherine & Elwood
 Near intersection of Rutherford & Woodside Rd.
 SSO at manhole located in easement (rear residential yard) location - area where SSO took place in a soil/dirt area - resin
 SSO took at sewer manhole located in residential area of Goodwin Ave.
 On Shell Parkway near 844 Portwalk Place
 At sewer manhole in residential street - retained in downstream storm catch basins
 At end of Poplar Ave right where the road approaches an on ramp to Woodside Rd.
 SSO manhole located on heavily traffic roadway adjacent to roadway median - in fast lane of two lane north westerly direction
 At Vera Ave near deadend of Myrtle St, specifically the crossing of Jefferson Branch of Redwood Creek (concrete lined trench)
 sewer manhole in front of 820 Fulton (manhole in sidewalk)
 SSO out of a 15" sanitary sewer trunkline located in residential neighborhood
 SSO at property line sewer cleanout - wastewater settled at swail area at curb and gutter
 Storage basement of building
 overflowed outside of sewer cleanout next to curb - flowed onto curb and gutter
 SSO took place in street within residential neighborhood
 Location of spill is inside of small candle shop (inside of and just outside of small restroom).
 Basement concrete floor in residence - spill was fully contained.
 Residential bathroom
 In building SSO related to main line blockage
 Spill occurred at property line sewer cleanout of commercial building
 SSO at sewer manhole in roadway
 SSO took place at manhole in residential neighborhood
 In residential neighborhood
 Overflow from manhole in the street on Shepard Way, residential street. Resident called Dept voicemail only & left message
 at manhole in front of 3659 Country Club
 SSO took place at cleanout of Jack In the Box restaurant - located at curb and gutter
 SSO location was in rear yard of residence and in an easement area - area affected is unmaintained dirt area of large back yard
 At sewer lift station #10 adjacent to Redwood Shores Lagoon and the Lighthouse Cove Condo complex.
 Overflow took place on dirt landscaped area of front yard at cleanout
 Spill occurred inside of residence (bathroom, hallway and closet)
 In 8" force main approx. 372' from the intersection of Twin Dolphin Pkwy/Marine Pkwy, located in an easement, 12' beneath
 At sewer manhole in intersection of Sierra & Carlton located in residential neighborhood
 On roadway inside of ARV manhole and into roadway and curb and gutter
 Office restrooms
 At sewer manhole in residential neighborhood
 Manhole
 Occurred during rain on 3/24/11, spill slow flow from several property line cleanouts along street, flowed to low spot at 180' from
 Property line cleanout in the lawn area
 Inside rental residence home
 Spill took place at property line sewer cleanout, in the resident's driveway and at curb and gutter area in front of residence
 Spill location was in residential basement.
 Spill was located in front yard and curb and gutter
 At street manhole in residential area.
 In residential backyard, on sloped hillside.
 Spill took place at property line sewer cleanout, in parking lot
 At cleanout located between residential buildings, in front yard patio.
 Location of spill took place in complex driveway and curb and gutter
 At cleanout, in curb and gutter
 Underneath residential backyard storage shed.

dent stated to Public Works Supervisor 1

action road
apezoid open storm channel)

age spill (did not follow prompts to emer

kyard.

ith an asphalt walkway, with vegetative l

07 Redwood Ave. Main line was surchar

ie.

Other (specify)
Force main or pressure sewer
Manhole
Other (specify)
Manhole
Other (specify)
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Other (specify)
Manhole
Manhole
Other (specify)
Building or structure
Gravity sewer;Other (specify)
Manhole
Building or structure
Other (specify)
Building or structure
Building or structure
Other (specify)
Manhole
Manhole
Manhole
Manhole
Manhole
Other (specify)
Manhole
Force main or pressure sewer;Pump station
Other (specify)
Building or structure
Force main or pressure sewer
Gravity sewer;Manhole
Other sewer system structure;Other (specify)
Building or structure
Manhole
Manhole
Other sewer system structure
Gravity sewer
Building or structure
Other (specify)
Building or structure;Other (specify)
Gravity sewer;Other (specify)
Manhole
Gravity sewer;Other (specify)
Other (specify)
Gravity sewer;Other (specify)
Gravity sewer
Other (specify)
Gravity sewer;Other (specify)

cleanout

Sewer lamphole

Storm drain inlet was observed as leaking into catch basin siphon on the street, on evening caller noticed it (11/30/08)

Exiting manhole on Shell Parkway

concrete-lined storm drain channel

at property line sewer cleanout (near sidewalk)
floor drain in basement
at sewer cleanout

Storage basement floor drain
Overflow originated at shower drain inside of bathroom inside of home
building that experienced overflow is a laundromat
sewer cleanout

Manhole in street

cleanout at property line

Sewer cleanout

Air Release Valve

spill surfaced from several property line cleanouts along residential street section
at the property line cleanout

At property line sewer cleanout in residential driveway
Overflow took place in residential basement restroom.
Property line sewer cleanout

At cleanout located in backyard.
At property line sewer cleanout
At cleanout, between building on Harrison & Jefferson.

cleanout
Spill occurred at 4 cleanout that is underneath homeowner's storage shed.

Street/curb and gutter
Other (specify below)
Surface water
Street/curb and gutter
Street/curb and gutter
Separate storm drain
Street/curb and gutter
Street/curb and gutter
Unpaved surface
Surface water
Surface water
Storm drain;Street/curb and gutter
Unpaved surface;Other (specify below)
Storm drain;Street/curb and gutter
Surface water;Other (specify below)
Street/curb and gutter
Storm drain
Street/curb and gutter
Building or structure
Other paved surface;Street/curb and gutter
Street/curb and gutter
Building or structure
Building or structure
Other (specify below)
Building or structure;Other (specify below)
Street/curb and gutter;Other (specify below)
Surface water
Surface water
Street/curb and gutter;Unpaved surface
Other (specify below)
Storm drain;Other (specify below)
Other paved surface;Street/curb and gutter
Unpaved surface;Other (specify below)
Building or structure;Other paved surface;Surface water;Unpaved surface
Street/curb and gutter;Other (specify below)
Building or structure
Other paved surface
Separate storm drain;Street/curb and gutter
Street/curb and gutter;Other (specify below)
Building or structure;Other (specify below)
Separate storm drain
Separate storm drain
Building or structure;Other paved surface;Unpaved surface
Street/curb and gutter;Unpaved surface
Building or structure
Street/curb and gutter;Other (specify below)
Building or structure;Other (specify below)
Street/curb and gutter
Other paved surface;Separate storm drain;Street/curb and gutter;Other (specify below)
Unpaved surface;Other (specify below)
Other paved surface
Unpaved surface;Other (specify below)
Street/curb and gutter;Other (specify below)
Street/curb and gutter
Unpaved surface;Other (specify below)

Contained in curb and gutter
Fully recaptured and returned to the sanitary sewer system

Based on inspection of concrete lined creek access at Roosevelt & Ruby in addition to several downstream storm drain m

Redwood Shores Lagoon

Wastewater was retained in two downstream catch basins - three catch basins were inspected while two indicated that the
Some of the spill destination was in a heavily vegetated drain dirt ditch located between a storm drain discharge and intake

concrete-lined storm channel (Jefferson Branch, Redwood Creek)

Water flowed down curb and gutter and settled at corner of Fulton & Vera

Wastewater from SSO entered storm system at Hopkins & Myrtle St - wastewater entered storm system but never made it

Wastewater settled at cleanout area and curb and gutter in street

affected area were several rooms located in building basement

Overflowed and flowed toward Opal Ave (no inlets affected)

All wastewater was absorbed by small area of carpet just outside restroom

Area affected by overflow was inside of lower level family room and bathroom

at another manhole location in a private parking lot, there was some signs of grease that may have overflowed. Area was
overflow was immediately contained at the curb and gutter utilizing sandbags - wastewater was vacuumed up and washed

Storm pipe flows to Jefferson Branch of Redwood Creek, distance branch more than 1000 ft, which is a covered concrete
SSO was captured in adjacent storm drain siphon

Wastewater ran down and puddled up on Kentfield Ave, upstream from storm inlet located far down street

Area affected is an area of a large yard - SSO did not affect any water way or creek and did saturate dirt/soil area around

Note: Of the 37,800 gallons shown as recovered, 2,000 gallons was not recovered but did not reach surface waters. It evap

Other area is residents front yard in landscaped dirt area

Closest drop inlet was vacuumed - fortunately, this inlet is deep and was capable of storing wastewater - some water was s

Also contained inside ARV manhole

contained in two office restrooms

spill flowed to residential garage (bldg), driveway, landscaping and lawn areas

Spill was located at private driveway and curb and gutter in front of residence.

Wastewater destination was located in carpeted hallway and residential restroom tile floor.

Small amount may have flowed into downstream inlet. As a precaution, water was vacuumed out of inlet and returned bac

Spill flowed onto dirt and vegetated hillside and eventually puddled in a depression located in residential backyard.

Spill took place in patio area of fenced in front yard, onto synthetic turf area around cleanout

Location of remaining spill was on apartment complex driveway too.

Spill soaked into residential backyard area and underneath storage shed

7/8/2008 7:28	7/8/2008 7:29	7/8/2008 8:15	7/8/2008 10:00
8/6/2008 11:15	8/6/2008 11:15	8/6/2008 11:15	8/6/2008 11:30
9/30/2008 7:58	9/30/2008 7:58	9/30/2008 8:10	9/30/2008 8:15
10/9/2008 12:08	10/9/2008 12:08	10/9/2008 12:30	10/9/2008 12:35
11/3/2008 11:33	11/3/2008 11:33	11/3/2008 11:45	11/3/2008 11:55
11/30/2008 17:00	11/30/2008 17:00	12/1/2008 9:08	12/1/2008 9:30
12/12/2008 8:13	12/12/2008 8:13	12/12/2008 8:20	12/12/2008 8:32
12/25/2008 15:26	12/25/2008 15:26	12/25/2008 15:36	12/25/2008 16:00
4/8/2009 7:30	4/9/2009 9:50	4/8/2009 9:00	4/8/2009 9:20
4/20/2009 8:45	4/20/2009 8:45	4/20/2009 8:50	4/20/2009 9:15
5/21/2009 9:10	5/21/2009 9:10	5/21/2009 9:20	5/21/2009 9:28
5/20/2009 10:15	5/20/2009 10:15	5/20/2009 10:40	5/20/2009 0:00
6/3/2009 8:55	6/3/2009 8:55	6/3/2009 9:00	6/3/2009 9:50
6/27/2009 11:30	6/27/2009 11:30	6/27/2009 11:40	6/27/2009 13:30
7/15/2009 8:45	7/15/2009 8:50	7/15/2009 9:00	7/15/2009 9:10
8/4/2009 3:47	8/4/2009 3:47	8/4/2009 4:07	8/4/2009 4:05
8/4/2009 9:15	8/4/2009 9:15	8/4/2009 9:25	8/4/2009 9:30
8/5/2009 14:14	8/5/2009 14:14	8/5/2009 14:39	8/5/2009 14:14
8/12/2009 12:00	8/12/2009 12:00	8/12/2009 12:30	8/12/2009 13:30
8/18/2009 9:10	8/18/2009 9:10	8/18/2009 9:40	8/18/2009 9:45
9/29/2009 8:10	9/29/2009 8:10	9/29/2009 8:15	9/29/2009 8:19
10/16/2009 10:40	10/16/2009 10:45	10/16/2009 10:50	10/16/2009 13:30
12/16/2009 22:24	12/17/2009 12:13	12/17/2009 12:30	12/16/2009 23:11
1/20/2010 9:16	1/20/2010 9:16	1/20/2010 9:45	1/20/2010 9:50
2/26/2010 18:30	2/26/2010 18:45	2/26/2010 19:00	2/26/2010 19:55
3/1/2010 12:39	3/1/2010 12:39	3/1/2010 12:46	3/1/2010 12:59
3/24/2010 10:19	3/24/2010 10:19	3/24/2010 10:25	3/24/2010 11:00
3/24/2010 12:30	3/24/2010 12:30	3/24/2010 13:00	3/24/2010 16:40
6/28/2010 9:58	6/28/2010 9:58	6/28/2010 10:05	6/28/2010 10:31
7/22/2010 19:50	7/23/2010 7:04	7/23/2010 7:15	7/23/2010 7:30
7/24/2010 13:15	7/24/2010 13:45	7/24/2010 14:00	7/24/2010 15:30
8/5/2010 8:23	8/5/2010 8:58	8/5/2010 9:15	8/5/2010 9:30
8/6/2010 12:40	8/6/2010 12:40	8/6/2010 12:55	8/6/2010 13:40
8/25/2010 0:00	8/25/2010 14:50	8/25/2010 14:59	8/26/2010 20:00
10/8/2010 12:53	10/8/2010 12:53	10/8/2010 13:20	10/8/2010 13:29
11/26/2010 11:40	11/26/2010 11:40	11/26/2010 11:50	11/26/2010 12:50
12/2/2010 13:45	12/2/2010 13:45	12/2/2010 13:45	12/2/2010 14:00
1/4/2011 8:44	1/4/2011 8:44	1/4/2011 8:50	1/4/2011 9:00
1/26/2011 13:30	1/26/2011 13:30	1/26/2011 13:45	1/26/2011 14:15
2/22/2011 13:05	2/22/2011 10:58	2/22/2011 12:00	2/22/2011 13:07
3/2/2011 11:37	3/2/2011 11:37	3/2/2011 11:40	3/2/2011 11:40
3/7/2011 16:19	3/7/2011 16:19	3/7/2011 16:29	3/7/2011 17:37
3/24/2011 14:10	3/24/2011 14:11	3/24/2011 14:20	3/24/2011 16:15
4/8/2011 13:48	4/8/2011 14:32	4/8/2011 14:42	4/8/2011 15:00
3/29/2011 13:35	3/29/2011 13:35	3/29/2011 13:45	3/29/2011 13:50
5/7/2011 13:46	5/7/2011 13:46	5/7/2011 14:40	5/7/2011 15:00
5/16/2011 18:59	5/16/2011 18:59	5/16/2011 19:15	5/16/2011 19:45
6/6/2011 12:36	6/6/2011 12:36	6/6/2011 12:45	6/6/2011 12:55
6/13/2011 12:35	6/13/2011 12:35	6/13/2011 12:45	6/13/2011 12:50
6/20/2011 11:40	6/20/2011 11:40	6/20/2011 13:30	6/20/2011 15:15
6/27/2011 11:15	6/27/2011 11:15	6/27/2011 11:25	6/27/2011 11:27
7/2/2011 13:20	7/2/2011 13:20	7/2/2011 13:30	7/2/2011 14:00
10/23/2011 11:19	10/23/2011 11:19	10/23/2011 13:30	10/23/2011 13:45
10/24/2011 8:23	10/24/2011 8:23	10/24/2011 8:30	10/24/2011 8:40
10/28/2011 11:38	10/28/2011 11:38	10/28/2011 12:16	10/28/2011 14:15

Root intrusion
Other (specify below)
Other (specify below)
Grease deposition (FOG)
Grease deposition (FOG)
Other (specify below)
Grease deposition (FOG)
Grease deposition (FOG)
Vandalism
Vandalism
Other (specify below)
Root intrusion
Debri-Rags
Grease deposition (FOG)
Vandalism
Grease deposition (FOG)
Debri-General
Root intrusion
Other (specify below)
Pipe structural problem/failure
Grease deposition (FOG)
Pipe structural problem/failure
Root intrusion
Other (specify below)
Grease deposition (FOG)
Root intrusion
Debri-Rags
Debri-Rags
Other (specify below)
Grease deposition (FOG)
Root intrusion
Grease deposition (FOG)
Root intrusion
Pipe structural problem/failure
Vandalism
Root intrusion
Pipe structural problem/failure
Other (specify below)
Other (specify below)
Other (specify below)
Root intrusion
Debri-Rags
Other (specify below)
Root intrusion
Debri-Rags
Root intrusion
Root intrusion
Root intrusion
Debri-Rags
Root intrusion
Grease deposition (FOG)
Other (specify below)
Root intrusion
Root intrusion
Root intrusion

Lower lateral had excessive roots and paper

Leaking Air Release Valve (ARV)

Blockage believed to be caused by previous day's root cutting at upstream location - root cuttings were found in manhole

Sewer manhole did not overflowed at time of blockage - it is appears that the sewer overflow ex-filtrated into nearby stor

Combination of rags & tree roots

rags also identified as source of blockage

long small diameter root mass from a 6" sewer line caused the blockage - we suspect this root mass came from an upstre
lateral had root intrusion and paper which caused lateral to experience blockage

Excessive amount of paper in main (as stated in operator report)

Some grease deposits identified in main

Sewer mains were surcharged in street but running - possible upper private sewer line issues combined with lower level f
heavy industrial rags were also identified

Crew noticed a large bundle of rags flowing down the main once the blockage was cleared - crews tried to capture debris
The main lines will be televised on 3/29/10 to further evaluate possible other causes of blockage
Diapers were found in the sewer main line. Also, some grease as well was identified.

The investigation into the cause of the pipe failure and spill is final. The findings are pipe failure/fatigue resulting from fre
Identified was a large amount of industrial rags in the gravity main line

Pipe did not break or rupture, rather a disconnection of pipe from coupling appears to be caused by earth movement or v
identified was a pair of men's underwear

Damaged Air Release Valve - THIS AIR RELEASE VALVE HAS BEEN REPAIRED ON 1/31/11

This was a self induced backup caused by the use of a pressure bag when city maintenance crews attempted to clear m

During heavy rains, bricks fell from manhole structure causing obstruction in mainline

Root intrusion from private tree

This blockage was related to grease & debris (hand wipes).

Also had grease deposition and debris (general)

Grease and debris in lateral as well.

Lower Lateral
Other (specify below)
Main
Main
Main
Other (specify below)
Main
Main
Main
Main
Main
Main
Main
Main
Main
Other (specify below)
Main
Main
Lower Lateral
Main
Main
Main
Lower Lateral
Lower Lateral
Other (specify below)
Main
Lower Lateral
Main
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Main
Main
Main
Lower Lateral
Main
Main
Main
Main
Main
Main
Other (specify below)
Other (specify below)
Main
Main
Main
Lower Lateral
Main
Lower Lateral
Lower Lateral
Lower Lateral
Main
Lower Lateral
Other (specify below)
Other (specify below)
Lower Lateral
Lower Lateral
Lower Lateral

Air Release Valve

The blockage occurred in 6" sewer main line and appeared to be roots and debris. Mainline was cleared immediately by r

Siphon

City mains were surcharged at time of rain but flowing - sewer lateral will be televised on 1/22/10 to further determine con

In force main, investigation will continue to look at other utilities in area because of several years of roadway reconstructi

Air Release Valve

Lower lateral/main line that exclusively services two small restrooms in building.

Sewer siphon

This lateral cleanout is located between buildings on Harrison Ave & Jefferson Ave (residence of 1526 Jefferson) and far

	4 vcp
	2 Brass
	8 vcp
	6 vcp
adding to remove roots. Sto	10 vcp
	6 vcp
	6 pvc
	vcp
	6 vcp
	12 vcp
	6 vcp
	6 vcp
	8 vcp
	10 vcp
	8 cast iron
	6 vcp
	15 vcp
	4 vcp
	6 vcp
	6 vcp
	6 vcp
	4 VCP
dition of lower lateral line	4 vcp
	8 vcp
	4 vcp
	10 VCP
	10 VCP
	8 vcp
	6 VCP
	8 vcp
	4 vcp
	6 VCP
	14 ACP
	8 vcp
	6 vcp
on of Marine Parkway	8 ACP
	6 vcp
	PVC
	6 vcp
	6 VCP
	12 vcp
	6 vcp
	6 vcp
	4 vcp
	4 vcp
	4 vcp
	4 vcp
	6 vcp
	4 cast iron
away from the public right of	
	4 vcp
	4 vcp
	4

25

25

40

20

Once initial operator arrived on scene, employee immediately cleared blockage - employee then requested clean up assistance.

Crew immediately cleared blockage - crew picked up debris at point of overflow - unable to recover due to nearby culvert.
Crew immediately cleared blockage. Crew washed down area of road where spill occurred and vacuumed up remaining water.

Crew responded to location once message was received from call (on Monday 12/1/08) - crew immediately cleared main line.
Crew responded on site and cleared main line - following clearing of main, jetter crew washed down street surface water.

Once flow was restored, crew began cleanup by watering down street and curb and gutter - vacuum unit was parked at downstream location.
Crew immediately cleared main line following arrival - water samples on lagoon at point of discharge, above & below discharge.
Sanitary sewer was not overflowing at time of crew response arrival - sewer jetting crew responded and cleared main line.
Jet crew and storm drain employee cleaned storm drain system by using 500gls of water to clean storm pipe - all water returned to sewer.
When operator arrived on scene, employee placed rubber mat and sandbags as a precautionary measure to minimize/strengthen area.

Supervisor responded out at location immediately following after hours notification to office - supervisor waited on site for assistance.

storm section supervisor first responded on site and confirmed SSO then called out jetter to site so area could be cleaned.
Area experienced sewer main line blockage on Wed 8/12 however city was informed of SSO in basement on Friday 8/14.

Immediate response by jetter crew - crew first cleared main then set up vacuum truck at downstream location on Opal Av.
Attempted to clear blockage/pipe failure but was unable to - construction crew will perform emergency repair on Friday 10/12.
Area was cleaned by a remediation company once city was notified of spill in basement.
Affected area was cleaned by a restoration firm specialized in wastewater cleaning.
once main line was cleared, cleaning mitigation company was requested to respond on site and clean affected building floor.
line will be inspected by CCTV for further inspection today (3/2/2010).

Maintenance crew experienced difficulties in clearing blockage - additional resources were called in, including bordering city.
Crew also washed down area with an additional 500 gallons of water and vacuumed it all up and returned it back to the sewer.

Initial call was for smelly storm drain - storm drain employee confirmed that affected basin is actually a storm siphon and
Vacuum truck crew washed down wastewater in curb and gutter by utilizing a fire hydrant while they located themselves down
Yard area where spill was contained (previous area) saturated area around manhole - Cleaning/mitigation company was requested.
Conduct water quality testing of lagoon waters; identify approach / method for improving water quality, notified residents of spill.
Location of overflow was at cleanout in dirt area of residents front yard - area was cleaned and disinfected - curb and gutter.
Affected areas have been cleaned by remediation service company and soiled carpet has been discarded. Also, sewer repair.
Crew was onsite for PM at Pump Station 1 and detected the leak as it started.
Manhole was not overflowing when operator arrived - Total spill quantity was based on amount that was vacuumed out of it.
Vacuum truck arrived on site at 13:45 hrs and immediately started to vacuum out arroyo manhole - estimated 10 gallons on site.

When first responder and supervisor arrived on scene, manhole was not overflowing. Operator opened and inspected near manhole.
Manhole had saturation around the rim but was mostly driven over by vehicular traffic - manhole was barely overflowing -
City crews jetted the mainline and determined obstruction in the line, CCTV blocked 10 ft from manhole structure. Main line.

When request for service was received on 3/29/11, city staff or responding employee was not aware or informed by anyone.
Once line was cleared, area affected was washed down and vacuumed up with combo unit. Nearest storm inlet is located at
Once notified of spill, line was cleared and mitigation company was called immediately to respond on site and perform cleanup.
Area was washed down, and vacuumed at the same time. There isn't a storm drain inlet in the area so there was not a direct
As a precaution, downstream inlet was vacuumed out and storm drain water was returned to sewer system. Based on visual
Wastewater saturated into hillside and puddled in low lying area - cleaning company was requested to respond to clean area.
Crew washed down area and vacuumed up water.

The carpeted (synthetic turf) that was affected by the spill was removed and discarded and will be replaced. The concrete
This lateral line has been scheduled for CCTV inspection and additional cleaning - driveway, curb and gutter area affected.

City responded to blockage when first notified on 10/28/11. Lateral line was cleared by accessing sewer manhole located

9/30/2008 8:45

12/1/2008 9:30

4/20/2009 13:30

5/21/2009 12:30

7/15/2009 9:30

8/4/2009 12:00

3/24/2010 11:00

3/24/2010 20:00

7/23/2010 7:30

9/7/2010 9:48

Other (specify below)

Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance;Other (specify b

Other (specify below)

Adjusted schedule/method of preventive maintenance

Adjusted schedule/method of preventive maintenance

Added sewer to preventive maintenance program

Added sewer to preventive maintenance program;Other (specify below)

Other (specify below)

Adjusted schedule/method of preventive maintenance

Adjusted schedule/method of preventive maintenance;Repaired sewer;Other (specify below)

short segment of pipe where blockage took place will be televised just to see if there is an offset or broken pipe.

Sewer main pipe was televised on 12/1/08 - pipe condition is good. - main line will also be serviced for root cutting on 12

When blockage was cleared, crew stated that they observed a large amount of rags in manhole - potential upstream sour Spill was partially recovered by using inlet mat over affected inlet - water quality samples were taken following spill while

Cause was vandalism, trash dumped in nearby manhole. Vacuum out debris and cleaned line and manhole. Will check si

Storm maintenance crew was immediately requested to initiate an inspection of the storm system so that a determination

Currently scheduled sewer line on Farmhill to be televised during the week of 3/29 for further inspection

This SSO likely may possibly be related to previous 3/24 SSO on Farmhill Blvd where blockage and SSO took place (rag

Provide additional training to staff on exercising air relief valves.

Yes

Yes

Yes

Yes

No

No

Yes

Yes

No

Yes

N/A

Storm crew (Latu & Rupert) performed visual inspection of creek at Chesire. No signs of debris.

N/A

Performed by storm drain inspection personnel and sewer supervisor - no odors or solids or debris present in creek

N/A

N/A

N/A

Total of 4,667 LF of inaccessible concrete lined creek was inspected by storm drain personnel- at the furthest point down:

No signs of solids or debris in lagoon

N/A

N/A

No solids released

N/A

open creek located at Jefferson & Fulton did not show any signs of contamination

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

Crews inspected natural creek at Stulsaft - no sign of solids or grey water

Inspection of creeks included 6083 LF of creek including inspection at Carson natural creek - employee report states no s

N/A

None

N/A

N/A

N/A

Water quality testing conducted, visual inspection showed NO fish kills or impaired waterfowl. Inspections were daily by b

N/A

N/A

NA

As a precaution, storm drain staff inspected creek access at Gordon & Redwood - according to staff, there was not any si

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

No

No

No
Yes

No

No

No
No

No

Yes

N/A

N/A

N/A
Neptune beach at Marlin park (possibly)

NA

N/A

N/A

N/A

NA

Marlin Park beach

N/A

N/A

N/A

N/A

N/A

N/A

N/A

Redwood Creek

Redwood Creek

Redwood Creek
Redwood city lagoon

Jefferson Branch of Redwood Creek

N/A

Redwood Creek
Redwood Creek

Jefferson Branch of Redwood Creek

Redwood Shores Lagoon

N/A
No impact to surface water
N/a
N/A
N/A
N/A
N/A
N/A

N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A

No water quality samples taken

No water quality samples taken

Biological indicator(s) - specify below

Biological indicator(s) - specify below

No water quality samples taken

Not applicable to this spill

No water quality samples taken

Other chemical indicator(s) - specify below;Other (specify below)

No water quality samples taken

Dissolved oxygen;Biological indicator(s) - specify below

Samples tested for Total Coliform & E Coli (performed by San Mateo County Public Health Laboratory)
Total coliform, ecoli & intracoccus (per County health)

Total Cloriform

Tested for Total Coliform, E. Coli, Enterococci, DO

None of the above

None of the above

County Health Agency
County Health Agency

None of the above

None of the above

None of the above
None of the above

None of the above

County Health Agency

Results have been sent to County Health Agency lab for processing

87073	9/30/2008 9:30
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88575	12/1/2008 9:20
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93097	4/20/2009 10:22
93829	5/21/2009 9:44

95017	7/15/2009 10:25
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95444	8/4/2009 10:32
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101983	3/24/2010 11:20
101997	3/24/2010 14:15

10443	7/23/2010 10:50
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105100	8/25/2010 15:46
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2SSO10168	Active	773479 Ray Bartolo	Certified
2SSO10168	Active	773790 Ray Bartolo	Certified
2SSO10168	Active	773856 Marilyn Harang	Certified
2SSO10168	Active	774069 Ray Bartolo	Certified
2SSO10168	Active	774850 Marilyn Harang	Certified
2SSO10168	Active	775447 Ray Bartolo	Certified
2SSO10168	Active	775606 Ray Bartolo	Certified
2SSO10168	Active	775723 Ray Bartolo	Certified
2SSO10168	Active	776070 Ray Bartolo	Certified
2SSO10168	Active	776686 Ray Bartolo	Certified
2SSO10168	Active	776700 Ray Bartolo	Certified
2SSO10168	Active	776869 Ray Bartolo	Certified
2SSO10168	Active	777131 Ray Bartolo	Certified
2SSO10168	Active	777408 Ray Bartolo	Certified
2SSO10168	Active	777794 Ray Bartolo	Certified
2SSO10168	Active	778041 Ray Bartolo	Certified
2SSO10168	Active	778106 Ray Bartolo	Certified
2SSO10168	Active	779204 Ray Bartolo	Certified
2SSO10168	Active	779261 Ray Bartolo	Certified
2SSO10168	Active	779457 Ray Bartolo	Certified
2SSO10168	Active	779671 Ray Bartolo	Certified
2SSO10168	Active	780969 Ray Bartolo	Certified
2SSO10168	Active	782284 Ray Bartolo	Certified
2SSO10168	Active	784614 Ray Bartolo	Certified
2SSO10168	Active	786270 Ray Bartolo	Certified
2SSO10168	Active	786631 Ray Bartolo	Certified
2SSO10168	Active	786841 Ray Bartolo	Certified
2SSO10168	Active	787187 Ray Bartolo	Certified
2SSO10168	Active	787783 Ray Bartolo	Certified
2SSO10168	Active	789148 Ray Bartolo	Certified
2SSO10168	Active	790538 Ray Bartolo	Certified
2SSO10168	Active	791002 Ray Bartolo	Certified
2SSO10168	Active	792952 Terence Kyaw	Certified
2SSO10168	Active	793201 Ray Bartolo	Certified
2SSO10168	Active	793515 Ray Bartolo	Certified
2SSO10168	Active	794002 Ray Bartolo	Certified
2SSO10168	Active	794643 Ray Bartolo	Certified
2SSO10168	Active	796208 Ray Bartolo	Certified
2SSO10168	Active	796575 Ray Bartolo	Certified
2SSO10168	Active	798023 Ray Bartolo	Certified
2SSO10168	Active	798107 Ray Bartolo	Certified
2SSO10168	Active	799932 Justin Chapel	Certified
2SSO10168	Active	800182 Justin Chapel	Certified
2SSO10169	Active	650801 Bonner Beuhler	Certified
2SSO10169	Active	652452 Bonner Beuhler	Certified
2SSO10169	Active	654747 F. Bonner Beuhler	Certified
2SSO10169	Active	655671 Johnny Tucker	Certified
2SSO10169	Active	656770 Bonner Beuhler	Certified
2SSO10169	Active	657028 Bonner Beuhler	Certified
2SSO10169	Active	658080 Bonner Beuhler	Certified
2SSO10169	Active	706991 Johnny Tucker	Certified
2SSO10169	Active	709165 Johnny Tucker	Certified
2SSO10169	Active	709177 Bonner Beuhler	Certified
2SSO10169	Active	709184 Bonner Beuhler	Certified
2SSO10169	Active	711047 Johnny Tucker	Certified

Supervisor
Supervisor
Acting Public Works Services Director
Supervisor
Acting Public Works Services Director
Supervisor
Supervisor
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Supervisor
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Supervisor
Supervisor
Supervisor
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Supervisor
Assistant Public Works Director
Supervisor
Supervisor
Supervisor
Supervisor
Supervisor
Supervisor
Supervisor
Supervisor
Public Works Supervisor
Public Works Superintendent
Manager
District Manager
Manager
District Manager
Manager
Manager
Manager
District Manager
District Manager
Manager
Manager
District Manager

Redwood City		905379
Redwood City		566830
	1202	982630
Redwood City		172115
	1153	482194
Redwood City		326943
Redwood City		830649
Redwood City		230074
Redwood City		798076
Redwood City		827552
Redwood City		516841
Redwood City		937467
Redwood City		409239
Redwood City		365849
Redwood City		711630
Redwood City		675807
Redwood City		296386
Redwood City		654410
Redwood City		641773
Redwood City		134567
Redwood City		766959
Redwood City		324426
Redwood City		740316
Redwood City		527508
Redwood City		502107
Redwood City		992845
Redwood City		623704
Redwood City		534422
Redwood City		793603
Redwood City		201312
Redwood City		767087
Redwood City		245940
Redwood City, CA		681534
Redwood City		134045
Redwood City		336502
Redwood City		371706
Redwood City		369621
Redwood City		547161
Redwood city		650099
Redwood City		367809
Redwood City		136732
	10:40	220735
	16:35	832378
500 Tiburon Blvd. Tiburon, CA 94920		333750
Tiburon, CA		314744
Tiburon, CA 94920		866493
0632hrs.		757153
Tiburon, CA		585310
Tiburon, CA		879988
Tiburon, CA		795519
1830hrs.		406888
0648hrs.		319323
Tiburon		491501
Tiburon, CA		136204
0646hrs.		786098

23-Nov-11	11/23/2011	23-Nov-11	11/23/2011
7-Dec-11	12/7/2011	7-Dec-11	3/2/2012
8-Dec-11	12/8/2011	8-Dec-11	12/28/2011
14-Dec-11	12/14/2011	14-Dec-11	10/9/2012
28-Dec-11	12/28/2011	28-Dec-11	12/28/2011
6-Jan-12	1/6/2012	6-Jan-12	3/27/2012
10-Jan-12	1/10/2012	10-Jan-12	1/10/2012
11-Jan-12	1/11/2012	11-Jan-12	1/11/2012
19-Jan-12	1/19/2012	19-Jan-12	1/19/2012
31-Jan-12	1/31/2012	31-Jan-12	2/22/2012
31-Jan-12	1/31/2012	31-Jan-12	1/31/2012
6-Feb-12	2/6/2012	6-Feb-12	2/6/2012
10-Feb-12	2/10/2012	10-Feb-12	2/27/2012
13-Feb-12	2/13/2012	6-Mar-12	3/6/2012
21-Feb-12	2/21/2012	21-Feb-12	2/27/2012
27-Feb-12	2/27/2012	27-Feb-12	2/27/2012
28-Feb-12	2/28/2012	16-Mar-12	3/16/2012
28-Mar-12	3/28/2012	28-Mar-12	3/28/2012
29-Mar-12	3/29/2012	9-Apr-12	4/9/2012
3-Apr-12	4/3/2012	14-May-12	5/14/2012
6-Apr-12	4/6/2012	6-Apr-12	4/6/2012
4-May-12	5/4/2012	4-May-12	5/4/2012
20-Jun-12	6/20/2012	25-Jul-12	7/25/2012
3-Aug-12	8/3/2012	9-Aug-12	8/9/2012
17-Sep-12	9/17/2012	19-Oct-12	10/19/2012
26-Sep-12	9/26/2012	26-Sep-12	9/26/2012
2-Oct-12	10/2/2012	2-Oct-12	10/2/2012
12-Oct-12	10/12/2012	12-Oct-12	10/12/2012
1-Nov-12	11/1/2012	1-Nov-12	11/1/2012
19-Dec-12	12/19/2012	19-Dec-12	3/5/2013
18-Jan-13	1/18/2013	18-Jan-13	1/30/2013
31-Jan-13	1/31/2013	31-Jan-13	1/31/2013
27-Mar-13	3/27/2013	29-Mar-13	3/29/2013
5-Apr-13	4/5/2013	5-Apr-13	4/5/2013
19-Apr-13	4/19/2013	19-Apr-13	4/19/2013
8-May-13	5/8/2013	8-May-13	5/8/2013
31-May-13	5/31/2013	31-May-13	5/31/2013
27-Jun-13	6/27/2013	27-Jun-13	6/27/2013
9-Jul-13	7/9/2013	9-Jul-13	7/9/2013
20-Aug-13	8/20/2013	20-Aug-13	8/20/2013
22-Aug-13	8/22/2013	22-Aug-13	8/22/2013
18-Oct-13	10/18/2013	22-Oct-13	10/22/2013
24-Oct-13	11/5/2013	5-Nov-13	11/5/2013
22-May-07		22-May-07	5/22/2007
19-Jun-07		19-Jun-07	6/19/2007
26-Jul-07		26-Jul-07	7/26/2007
13-Aug-07		3-Dec-10	12/3/2010
4-Sep-07		4-Sep-07	9/4/2007
10-Sep-07		10-Sep-07	9/10/2007
26-Sep-07		26-Sep-07	9/26/2007
1-Nov-07		2-Dec-10	12/2/2010
13-Dec-07		13-Dec-07	12/3/2010
13-Dec-07		13-Dec-07	12/13/2007
13-Dec-07		13-Dec-07	12/13/2007
9-Jan-08		9-Jan-08	12/3/2010

Category 3		30	30
Category 3		5	5
Category 3		2	0
Category 3		7	0
Category 3		20	20
Category 3		3	3
Category 3		40	30
Category 1		825	815
Category 3		500	500
Category 3		5	5
Category 1		1875	1875
Category 3		10	10
Category 3		255	255
Category 3		30	30
Category 3		5	5
Category 3		15	15
Category 1		3400	3400
Category 3		15	15
Category 1		6800	0
Category 3		100	100
Category 3		240	0
Category 3		10	0
Category 3		100	0
Category 3		20	15
Category 3		15	15
Category 3		5	0
Category 2		1800	1800
Category 3		5	0
Category 3		33	33
Category 3		10	10
Category 3		450	450
Category 3		600	600
Category 3		24	24
Category 3		10	0
Category 3		22	22
Category 3		10	10
Category 3		1	1
Category 1		150	0
Category 3		50	50
Category 1		21	21
Category 1		200	200
Category 3	15	15	15
Category 3	0	25	25
Category 3		300	0
Category 3		75	0
Category 3		50	
Category 1		20	5
Category 3		40	0
Category 3		20	
Category 3		20	0
Category 3		10	0
Category 1		30	0
Category 3		10	
Category 3		200	
Category 1		200	0

0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
10 Yes	Yes
0 No	Yes
0 No	No
1875 Yes	Yes
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
1400 Yes	Yes
0 No	No
6800 Yes	Yes
0 No	Yes
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	Yes
0 No	No
0 No	Yes
0 No	No
0 No	Yes
0 No	Yes
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
150 Yes	Yes
0 No	No
21 Yes	Yes
200 Yes	Yes
0 No	No
0 No	Yes
No	No
No	No
No	No
15 No	Yes
0 No	No
No	No
No	No
No	No
30 Yes	Yes
No	No
No	No
200 Yes	Yes

[illegible]

529 Harrison Ave.
1743 Hempstead
1447 El Camino Real
266 Fulton
1645 Sierra Street
601 Allerton
1404 Oxford
3514 Altamont Wy.
3844 EastLake Way
168 Bonita
3737 Farmhill (Stulsaft Park)
624 Sapphire
1589 James
5 Cadiz
1957 Maddux
1316 Hopkins
624 Woodside Rd.
850 Woodside
610 Woodside
1599 Bridge Parkway
2425 Jefferson
1999 Fernside
555 Twin Dolphin
2802 Washington Ave.
337 Chestnut
34 Waterside
1121 Edgewood Rd.
3733 Laurel
1048 El Camino Rl.
1060 El Camino Rl.
1260 Woodside
932 Middlefield
1710 El Camino Real, Redwood City, CA 94061
560 El Camino Rl
1048 El Camino Rl.
1516 Brewster
12 California st.
195 Alameda
3655 Glenwood
3737 Farmhill
3550 Farmhill
3518 Altamont Way
Redwood City Centrum Lift Station
MH DM 210.03
MH BG 122.15
MH SW 121.01
MH SW 15.03
BG 223.01
MH BG 151.03
100 Reed Blvd
MH BG 223.01
MH SW 421.11
604 Seminary Drive - Air Release MH
MH SW 412.09
MH SW 132.01

37.479902	-122.235241 San Mateo
37.454611	-122.235111 San Mateo
37.481111	-122.228056 San Mateo
37.482222	-122.239722 San Mateo
37.46393	-122.22792 San Mateo
37.489056	-122.232583 San Mateo
37.469444	-122.228889 San Mateo
37.466667	-122.250833 San Mateo
37.461667	-122.261111 San Mateo
37.466889	-122.220278 San Mateo
37.456111	-122.249722 San Mateo
37.470278	-122.243889 San Mateo
37.475083	-122.245556 San Mateo
37.52875	-122.246417 San Mateo
37.452389	-122.234194 San Mateo
37.486944	-122.240833 San Mateo
37.468889	-122.223889 San Mateo
37.465833	-122.224722 San Mateo
37.469167	-122.223889 San Mateo
37.5359	-122.25905 San Mateo
37.472611	-122.240278 San Mateo
37.451111	-122.234722 San Mateo
37.527222	-122.263611 San Mateo
37.457778	-122.239444 San Mateo
37.481111	-122.222528 San Mateo
37.533611	-122.236667 San Mateo
37.482778	-122.255028 San Mateo
37.466111	-122.255833 San Mateo
37.483611	-122.232417 San Mateo
37.483583	-122.231944 San Mateo
37.458611	-122.227583 San Mateo
37.484722	-122.228333 San Mateo
37.47885	-122.2254 San Mateo
37.489167	-122.238611 San Mateo
37.483611	-122.232417 San Mateo
37.484028	-122.240278 San Mateo
37.485917	-122.233083 San Mateo
37.480278	-122.252611 San Mateo
37.467361	-122.256111 San Mateo
37.456389	-122.249722 San Mateo
37.465278	-122.248889 San Mateo
37.383461	-122.250897 San Mateo
37.529356	-122.267111 San Mateo
37.883611	122.466944 Marin
37.900833	122.490556 Marin
37.899722	122.505 Marin
37.89412	122.50528 Marin
37.90167	122.48139 Marin
37.89647	122.49347 Marin
37.89827	122.51272 Marin
37.9018	122.48116 Marin
37.90077	-122.49994 Marin
37.89755	122.49664 Marin
37.89755	122.49664 Marin
37.899	-122.50647 Marin

[illegible]

At cleanout located in boxed in area in fenced in court yard, in between duplex units. on private property.
Residential bathroom
Inside building bathroom
Spill occurred in backyard of residential home.
Spill occurred at the property line cleanout to the residence.
SSO took place in building restroom.
Spill occurred at property line cleanout in driveway and flowed towards adjacent dirt area and on to curb and gutter. Becal
In residential street, outside of sewer manhole.
Spill occurred out of sewer main line manhole located in front of 3844 East Lake Way.
Inside fenced in yard, on carpeted ground patio area
At sewer manhole, inside Stulsaft Park, slightly downstream of Chatham Ct. Sewer manhole is located inside park ground
At property line cleanout and inside residential bathroom.
At manhole, in residential street.
Spill took place in residential basement.
Spill occurred in residential bathroom and garage.
At property line cleanout, in fenced in front yard
Inside two commercial buildings & outside of property line sewer cleanout. Upholstery store owner was in store when ove
Inside parking lot
In roadway
Sewer Lift Station #25, on Bridge Parkway near intersection with Island Dr

Some wastewater flowed outside sewer cleanout and onto surrounding dirt area in backyard and also inside basement are
In grass park strip location
SSO took place inside of residential home, in bathroom.
Duplex Residence
At residential property line cleanout, curb and gutter.
At sewer manhole located in street within residential neighborhood.
Around sewer manhole in street.
Manhole in sidewalk and in curb and gutter
Spill took place inside of office restroom
At manhole in busy street.
At manhole, at shoulder of road located in downtown area.

Inside building bathroom.
Spill occurred on sidewalk.
In residential bathroom, hallway
At sewer cleanout. Wastewater flowed onto sidewalk.
At manhole located at side of road.
Spill location confined to residential garage.
Within park facility.
Spill occurred in residential street from sewer manhole.
property line clean out

Manhole DM 210.03 in backyard of 4 Felipa Court.
Manhole BG 122.15 in front of 56 Reed Ranch Road, Tiburon, CA 94920
Manhole in unpaved driveway of 1 Bay Vista Court

Manhole BG 223.01
Manhole in front of 14 Southridge East.
Rod hole located in bushes of 100 Reed Blvd.
middle of street end of court

Manhole in front of 60 Bayview Terrace

use there are not any strom drain catch

ds.

rflow began.

ra.

1
2

Gravity sewer
Building or structure
Building or structure
Gravity sewer;Other (specify)
Other sewer system structure
Building or structure
Gravity sewer;Other (specify)
Manhole
Manhole
Gravity sewer;Other (specify)
Manhole
Building or structure;Other (specify)
Manhole
Building or structure
Building or structure
Other (specify)
Building or structure;Gravity sewer
Other (specify)
Manhole
Pump station;Other (specify)
Other (specify)
Building or structure;Other (specify)
Force main or pressure sewer
Building or structure
Building or structure
Other (specify)
Manhole
Manhole
Manhole
Building or structure
Manhole
Manhole
Manhole
Manhole
Building or structure
Manhole
Building or structure
Other (specify)
Manhole
Building or structure
Manhole
Gravity sewer;Manhole
Lateral Clean Out (Public)
Inside Building or Structure;Pump station
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole

cleanout.

Property line cleanout of residential sewer lateral.

Sewer cleanout.

At cleanout

Property line cleanout in front yard lawn area, also.

At property line sewer cleanout.

Cleanout in parking lot.

4 inch pump discharge line, bubbled up through soil and dirt area within Lift Station #25.

Sewer cleanouts.

Some flowed outside of cleanout.

Sewer cleanout

At sewer cleanout.

spill appeared from gravity main manhole, and inside a public restroom

Other paved surface;Other (specify below)
Building or structure
Building or structure
Unpaved surface;Other (specify below)
Street/curb and gutter
Building or structure;Other (specify below)
Street/curb and gutter;Unpaved surface
Separate storm drain;Surface water;Other (specify below)
Separate storm drain;Street/curb and gutter;Other (specify below)
Other paved surface;Other (specify below)
Other (specify below)
Building or structure;Unpaved surface
Street/curb and gutter
Building or structure
Building or structure
Unpaved surface
Building or structure;Separate storm drain;Street/curb and gutter;Other (specify below)
Other paved surface;Other (specify below)
Surface water;Other (specify below)
Other paved surface;Separate storm drain;Street/curb and gutter;Unpaved surface;Other (specify below)
Unpaved surface;Other (specify below)
Building or structure;Unpaved surface
Unpaved surface;Other (specify below)
Building or structure
Building or structure
Street/curb and gutter;Unpaved surface
Separate storm drain;Street/curb and gutter
Other paved surface;Other (specify below)
Separate storm drain;Street/curb and gutter;Other (specify below)
Building or structure
Separate storm drain;Street/curb and gutter;Other (specify below)
Other (specify below)
Street/curb and gutter
Building or structure
Street/curb and gutter
Building or structure
Other (specify below)
Surface water;Other (specify below)
Building or structure
Other (specify below)
Separate storm drain;Surface water;Other (specify below)
Unpaved surface
Building or Structure;Separate Storm Drain
Unpaved surface
Street/curb and gutter
Other paved surface
Storm drain;Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Other paved surface;Separate storm drain
Street/curb and gutter
Unpaved surface
Street/curb and gutter

Wastewater collected onto artificial grass area where cleanout is located. Area is isolated and away from public right of way.

Spill saturated dirt area at cleanout location.

Along the street at the curb and gutter.

Spill occurred in restroom of building. Affected area was cleaned by mitigation company. Spill occurred only in restroom.

Based on inspection of creek at 2320 Cheshire Wy, there was a small amount of grey water in the creek. Based on these observations, spill flowed through small open culverts throughout area. During recovery effort, final destination of spill was located in residential yard. Water spilled around sewer cleanout and onto carpeted play area in front yard.

Wastewater spilled into park creek. Sandbag Dam was set up far downstream of spill location, and trash pump and hose were used to pump water into creek. Also overflowed at property line cleanout in lawn area.

Water flowed in middle of street and in curb and gutter location.

Spill took place within residential front yard in landscaped tan bark area, within concrete fence/wall.

While most of the overflow was recovered from three different locations (Woodside Rd & Hudson, Lathrop & Elm and Elm & Lathrop). Inside parking lot.

While most of the SSO reached surface waters, some of it was recovered from two different locations. An inspection of Final Destination of overflow contained within storm drainage pipe.

When arrived, two separate cleanouts were overflowing (5GPM/ea).

Damp spot in grass park strip location. Based on the open excavation, it did not appear that a lot of water discharged from excavation. Final spill destination was in residential bathroom and hallway. City is still awaiting more information pertaining to other areas.

A small amount of water was located around sewer manhole. The curb and gutter was inspected and determined to not be a problem. Water was observed to be puddled in low lying low spot of curb and gutter. First responder sand bagged catch basin as per city easment.

A fair amount of the SSO was on the street surface and spread out by oncoming motorists.

Storm water pump station located just around the corner.

On sidewalk.

Following response to clear main sewer line, crew immediately relocated to 703 Katherine to attempt recovery. Upon arrival, crew was notified of spill.

Once notified of spill, crew immediately mobilized to downstream location to set up pump and dewater to sewer.

Once blockage was cleared, recovery crew was requested to relocate to far downstream accessible creek location at 900 W. 1st St. unimproved city easment.

dirt area in backyard of home

11/21/2011 16:39	11/21/2011 16:39	11/21/2011 17:00	11/21/2011 19:00
12/4/2011 17:53	12/4/2011 17:53	12/4/2011 18:10	12/4/2011 18:15
12/5/2011 17:36	12/5/2011 17:36	12/5/2011 17:50	12/5/2011 18:30
12/11/2011 16:58	12/11/2011 16:58	12/11/2011 17:10	12/11/2011 17:25
12/26/2011 13:26	12/26/2011 13:26	12/26/2011 14:25	12/26/2011 14:30
1/3/2012 14:54	1/3/2012 14:59	1/3/2012 15:10	1/3/2012 15:20
1/9/2012 8:22	1/9/2012 8:24	1/9/2012 8:30	1/9/2012 8:40
1/9/2012 9:30	1/9/2012 9:32	1/9/2012 9:45	1/9/2012 10:03
1/18/2012 8:10	1/18/2012 8:13	1/18/2012 8:25	1/18/2012 8:30
1/28/2012 10:36	1/28/2012 10:43	1/28/2012 15:45	1/28/2012 16:15
1/28/2012 10:00	1/28/2012 10:38	1/28/2012 10:50	1/28/2012 12:05
1/30/2012 13:40	1/30/2012 13:45	1/30/2012 14:00	1/30/2012 14:15
2/7/2012 9:42	2/7/2012 10:42	2/7/2012 10:45	2/7/2012 11:07
2/8/2012 18:20	2/8/2012 20:21	2/8/2012 20:50	2/8/2012 23:30
2/17/2012 10:20	2/17/2012 10:37	2/17/2012 10:47	2/17/2012 11:30
2/25/2012 13:30	2/25/2012 13:45	2/25/2012 14:20	2/25/2012 14:25
2/26/2012 10:37	2/26/2012 10:40	2/26/2012 10:47	2/26/2012 11:45
3/26/2012 6:50	3/26/2012 7:12	3/26/2012 7:20	3/26/2012 7:54
3/26/2012 8:00	3/26/2012 8:00	3/26/2012 8:10	3/26/2012 8:34
4/2/2012 11:10	4/2/2012 11:20	4/2/2012 11:30	4/2/2012 11:30
4/4/2012 8:45	4/4/2012 8:46	4/4/2012 9:01	4/4/2012 9:09
5/2/2012 10:15	5/2/2012 10:28	5/2/2012 10:38	5/2/2012 12:30
6/18/2012 10:30	6/18/2012 10:42	6/18/2012 11:00	6/18/2012 11:15
8/1/2012 12:30	8/1/2012 14:07	8/1/2012 15:20	8/1/2012 16:15
9/13/2012 17:00	9/13/2012 22:38	9/13/2012 22:55	9/14/2012 0:10
9/24/2012 11:15	9/24/2012 14:46	9/24/2012 15:45	9/24/2012 16:20
9/30/2012 13:30	9/30/2012 13:30	9/30/2012 13:32	9/30/2012 14:15
10/11/2012 10:52	10/11/2012 10:57	10/11/2012 11:00	10/11/2012 12:00
10/31/2012 12:28	10/31/2012 12:33	10/31/2012 12:55	10/31/2012 13:01
12/17/2012 10:00	12/17/2012 10:08	12/17/2012 10:18	12/17/2012 10:02
1/17/2013 11:40	1/17/2013 11:45	1/17/2013 12:00	1/17/2013 12:05
1/30/2013 13:12	1/30/2013 13:13	1/30/2013 13:15	1/30/2013 13:37
3/26/2013 12:23	3/26/2013 12:23	3/26/2013 12:33	3/26/2013 12:34
4/3/2013 21:30	4/3/2013 21:34	4/3/2013 21:45	4/3/2013 23:00
4/18/2013 8:10	4/18/2013 8:14	4/18/2013 8:17	4/18/2013 8:19
5/5/2013 18:00	5/5/2013 18:30	5/5/2013 18:40	5/5/2013 18:50
5/30/2013 15:30	5/30/2013 15:49	5/30/2013 16:12	5/30/2013 16:16
6/26/2013 9:55	6/26/2013 9:56	6/26/2013 10:09	6/26/2013 10:10
7/5/2013 19:27	7/5/2013 19:29	7/5/2013 19:39	7/5/2013 21:30
8/19/2013 8:15	8/19/2013 8:20	8/19/2013 8:34	8/19/2013 8:36
8/21/2013 12:35	8/21/2013 12:40	8/21/2013 12:52	8/21/2013 12:55
10/17/2013 11:47	10/17/2013 11:47	10/17/2013 11:55	10/17/2013 12:10
10/24/2013 13:15	10/24/2013 13:15	10/24/2013 13:15	10/24/2013 13:16
5/19/2007 14:00	5/19/2007 14:45	5/19/2007 15:00	5/20/2007 8:15
6/18/2007 21:00	6/18/2007 21:00	6/18/2007 20:00	6/19/2007 1:30
7/24/2007 15:00	7/24/2007 15:30	7/24/2007 15:45	7/24/2007 16:15
8/9/2007 11:50	8/9/2007 11:55	8/9/2007 12:00	8/9/2007 12:25
8/30/2007 9:45	8/30/2007 10:15	8/30/2007 10:00	8/30/2007 10:30
9/6/2007 8:00	9/6/2007 8:10	9/6/2007 8:30	9/6/2007 8:45
9/21/2007 15:30	9/21/2007 15:45	9/21/2007 15:55	9/21/2007 16:30
10/31/2007 10:30	10/31/2007 10:40	10/31/2007 10:50	10/31/2007 11:10
12/7/2007 10:30	12/7/2007 10:40	12/7/2007 10:45	12/7/2007 11:20
12/7/2007 12:00	12/7/2007 12:30	12/7/2007 12:45	12/7/2007 12:55
12/9/2007 11:45	12/9/2007 12:00	12/9/2007 13:00	12/9/2007 15:00
1/4/2008 13:00	1/4/2008 11:30	1/4/2008 13:00	1/4/2008 13:30

Grease deposition (FOG)
Root intrusion
Other (specify below)
Root intrusion
Root intrusion
Root intrusion
Root intrusion
Root intrusion
Root intrusion
Debri-Rags
Root intrusion
Root intrusion
Pipe structural problem/failure
Grease deposition (FOG)
Root intrusion
Debri-General
Grease deposition (FOG)
Grease deposition (FOG)
Grease deposition (FOG)
Pipe structural problem/failure
Root intrusion
Root intrusion
Pipe structural problem/failure
Root intrusion
Other (specify below)
Root intrusion
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Debri-Rags
Debri-Rags
Grease deposition (FOG)
Grease deposition (FOG)
Debri-Rags
Root intrusion
Debri-Rags
Debri-Rags
Root intrusion
Debri-Rags
Debri-Rags
Root Intrusion
Grease Deposition (FOG)
Root intrusion
Root intrusion
Root intrusion
Root intrusion
Grease deposition (FOG)
Root intrusion
Root intrusion
Grease deposition (FOG)
Root intrusion
Pipe structural problem/failure
Root intrusion
Root intrusion

We also suspect that lateral line may be flat lining in certain areas.

12/5/11 work report indicates roots, grease and debris.

Debris was also identified in lateral (industrial paper towels).

Line was difficult to clear. Segments of line appeared to be off set . STATUS - THE LOWER SEWER LATERAL HAS B

Large industrial rags were also retrieved from sewer pipe.

4 inch discharge line to pump #1 was broken and would overflow through soil when pump turned on.

Grease and debris resulted in cause of line blockage.

While roots was a contributor to the blockage, a large amount of hand wipes/paper towels also contributed to the cause of
This blockage was due to some roots but mostly debris related items like heavy paper towels.
When main line was jetted, it was not apparent as to cause of blockage. No grease, debris or roots were observed as cause.
Buildup of rags in sewer line, due to pipe offset. This sewer line has since then been repaired.

Crews identified heavy amount of industrial rags in sewer. This SSO was spotted and identified by City sewer crew while

Debris and Grease Deposition

Air release valve on force main fitting failed. Small amount of sewage leaked from MH during pump cycle. Not overflowing
Sewer partially obstructed with roots, manhole was surcharge but not overflowing initially. Due to increasing rainfall, manhole

Other (specify below)

Lower Lateral

Lower Lateral

Lower Lateral

Lower Lateral

Lower Lateral

Lower Lateral

Main

Main

Lower Lateral

Main

Lower Lateral

Main

Main

Lower Lateral

Lower Lateral

Main

Main

Main

Other (specify below)

Main

Main

Other (specify below)

Lower Lateral

Main

Lower Lateral

Main

Main

Main

Lower Lateral

Main

Main

Main

Other (specify below)

Main

Lower Lateral

Lower Lateral

Main

Lower Lateral

Main

Main

Lower Lateral (Public)

Gravity Mainline

Main

g when Roto Rooter arrived. Had pump truck ei

Main

The area that experienced a blockage is located in the upper lateral area however, the city is responsible for the entire se

Pump discharge line. I

6 inch sewer force main line

Main was plugged in the 1100 block of El Camino RI.

The sewer line that plugged and caused an SSO is a self serving 4 inch main line that services only two structures on El C

This lateral will be CCTV investigated on 5/10/13.

mpty MH and shut valve.

gment of sewer line.

4 vcp
4 vcp
6
4 vcp
4 Clay
4 vcp
6 vcp
6 VCP
6 VCP
4 VCP
8 VCP
4 VCP
6 VCP
8 VCP
4 VCP
4 VCP
6 vcp
10 vcp
10 VCP
4 PVC
vcp
6 VCP

4 VCP
6 VCP
4 vcp
8 VCP
6 VCP
6 VCP
4 VCP
10 VCP
8 VCP

Camino.

6 VCP

4 VCP
8 HDPE
4 VCP
8 VCP
6 VCP

No
No

4 pvc
8 clay

6
6

6
6
6 vcp
6 plastic
6 VCP

6
6 VCP

40 yrs

15

72
288

15

This sewer line will be subject to repair. Area subject to overflow was cleaned by a remediation company. Area subject to Resident called city on 12/6/11 and alerted city that overflow in bathroom occurred as a result of 12/4/11 lateral blockage. Remediation company was called once city was notified of spill inside bathroom. Crew cleared line on initial day of request. Cleaning remediation company was immediately requested to clean affected area. Soiled area was removed and replaced.

All wastewater was cleaned removed from restroom once responding mitigation company responded on site, immediately. Lateral line was serviced (line cleaned) again as a precautionary measure on 1/10/12 and will be inspected with CCTV. This section of main line will be inspected by main line CCTV camera. It will be inspected week of 1/16/12.

Spill response activity including an immediate recovery effort that included an inspection of all downstream culverts and creek. Area was cleaned and disinfected by remediation company. This lower lateral has been scheduled for CCTV inspection following. Once main line blockage was cleared, an immediate creek inspection and recovery effort was initiated. After creek location was identified, mitigation company was also called to respond to clean residential bathroom. Also, some debris overflowed at property line. During recovery, area was washed down and vacuumed then returned to sewer system. There are not any catchbasins in this area. Resident called and informed City on 2/10/12 of residential spill inside of residence. When city staff were alerted on 2/10/12, mitigation company was called out and requested to respond for cleaning service once it was confirmed spill affected inside of residence. The lower lateral will be inspected with CCTV on 3/2/12.

This spill is still being investigated. Mitigation crews were called to respond to two affected businesses so that they can be cleaned. SSO in parking lot was removed by hydro jetter and vacuum. This segment of main line sewer received a hydro saw service. Refer to attachment file name: sso_woodside_hudson

STATUS UPDATE - Following spill, pump was placed on "off" position to stop overflow pending discharge line repair. On 2/10/12, Tree root rodding truck crew was dispatched on site following spill and performed root cutting service to main sewer line. This easement sewer main line will receive additional PM service. Mitigation cleaning company was called out to clean area. Grass park strip area was immediately excavated and pipe segment was repaired by utilizing pipe clamps. There was no damage to property. Resident first called out a private plumber to clear blockage. Upon further investigation from the private plumber, he requested that city be notified. Once city staff were notified of backup into duplex unit, city responded and immediately initiated request to clear main line. When operator arrived on scene, wastewater had evaporated from cleanout, sidewalk area however lawn, sidewalk and gutter were affected. When employee was working at another nearby location, he was notified by motorist that she observed a sewer manhole overflow. The small amount of SSO around manhole was apparent however appeared to have evaporated, as the sewer manhole was not overflowing. Once line was cleared, crew immediately commenced a recovery effort. Following vacuuming of puddled water in curb area, area was cleaned. Upon notification of spill, we responded and viewed affected areas of spill inside restrooms. At time of arrival, overflow was not observed. This spill was identified by City wastewater employee. The spill was first identified by observing water in street lane. City staff were notified. Because the location of the overflowing manhole was located just around the corner of the nearest stormwater pump station, it was not observed until it was reported.

Once City was notified of SSO on 4/4/13 once building occupants started work, City immediately dispatched mitigation crew. Crew immediately cleared blockage once they noticed water on sidewalk. Also, crew followed curb and gutter downstream to locate source. Mitigation company was immediately contacted to clean affected area of SSO. This lower lateral will be inspected on 5/1/13. This lower lateral will undergo a line cleaning and CCTV inspection on 5/31/2013. This incident was alerted to us by resident. Following clearing of sewer main, sewer crew immediately relocated downstream to 703 Katherine to attempt recovery of blockage. Once City employee arrived on scene, mitigation services were requested to arrive on site. This lower lateral will undergo a line cleaning and CCTV inspection. This SSO was reported to wastewater staff by City Parks employee. Recovery crew immediately set up sandbag dam at 703 Katherine. Recovery crew mobilized equipment and staff to downstream creek location at 900 Blk Junipero. Crew set up a sandbag dam.

Air release valve on force main fitting failed. Small amount of sewage leaked from MH during pump cycle. Not overflowing.

Vacuumed out surcharged manhole and transferred to other nearby sewer. Rainfall extremely heavy at time with excessive runoff.

1/9/2012 14:30

1/28/2012 20:30

2/26/2012 17:00

3/26/2012 21:30

9/30/2012 19:30

6/26/2013 11:50

8/19/2013 12:00

8/21/2013 16:30

8/9/2007 12:25

12/7/2007 11:30

1/4/2008 13:30

Adjusted schedule/method of preventive maintenance;Other (specify below)

Adjusted schedule/method of preventive maintenance;Plan rehabilitation or replacement of sewer

Added sewer to preventive maintenance program;Other (specify below)

Adjusted schedule/method of preventive maintenance;Enforcement action against FOG source;Other (specify below)

Added sewer to preventive maintenance program;Other (specify below)

Other (specify below)

Adjusted schedule/method of preventive maintenance;Plan rehabilitation or replacement of sewer;Other (specify below)

Added sewer to preventive maintenance program;Other (specify below)

Other (specify below)

Other (specify below)

Plan rehabilitation or replacement of sewer

This main line will undergo CCTV inspection week of 1/16/2012. All affected downstream catch basins and storm pipe w

This main line will undergo a CCTV inspection

Wastewater treatment plant source control staff will be alerted of all contributing upstream business owners so that inspec
Follwoing SSO event, a contractor was requested and performed a hydro saw grease removal process on a large segmer

This main line will undergo a CCTV inspection.

Since this sewer main line isn't that old and has been rehabilitated within the past 15 years, we will CCTV the section of n

This sewer main has already undergone treatment for root kill, has received a CCTV inspection and has been root cut and
This sewer main line will be further evaluated on 8/23/13.

spill was related to crews working in lines upstream of spill location as this section of line was cleaned in the last 12 montl

Section of line is on 3 year cleaning program, next scheduled cleaning is summer 2008.

Yes

Yes

Yes

Yes

Yes

No

Yes

Yes

No

No

No

N/A

N/A

N/A

Inspection of standing creek located at 2300 Blk Cheshire revealed small amount of grey water, no debris. Water was va

Grey water was located just down stream from overflowing manhole but far upstream from sandbag dam and pump set u

N/A

N/A

Crews vacuumed out water from lined creek location until water cleared.

No wastewater reached surface water. Flap gate was closed against high tide at time, based on visual observation.

N/A

N/A

N/A

N/A

Crew walked entire creek and did not notice any grey water or negative impact to aquatic life.

Creek did not contain grey water or debris.

No

Yes

No

No

No

No

No

No

No

No

No

N/A

No beaches were affected but as a precautionary measure, posted barricades and caution tape were set up at creek local

N/A

N/A
N/A

NA

NA

NA

N/A
N/A
N/A
N/A

N/A
N/A
None
N/A
N/A
Flowed into park creek but returned to sewer system.
N/A
N/A
N/A
N/A

Redwood Creek
N/A
Redwood Creek
N/A
N/A
N/A
N/A

N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
None
N/A
N/A
N/A
N/A
Redwood Creek
N/A
Stulsaft Branch
None

NA

Richardson Bay

Richardson Bay

No water quality samples taken

Other chemical indicator(s) - specify below

No water quality samples taken

No water quality samples taken

No water quality samples taken

No water quality samples taken

No water quality samples taken

No water quality samples taken

No water quality samples taken

No water quality samples taken

Not applicable to this spill

Ammonia, Fecal coliform and other analysis - will update once laboratory findings are provided.

None of the above

County Health Agency

None of the above

No water quality samples taken

No water quality samples taken

None of the above

None of the above

None of the above

None of the above

None of the above

None of the above

Results of lab analysis are pending. Once provided, they will be provided to County Health.

`${ssoDetails.resultsReportedExplanation}`

120139	1/9/2012 11:25
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120582	1/28/2012 11:54
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12111	2/26/2012 12:15
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121765	3/26/2012 9:37
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125886	9/30/2012 16:43
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133896	6/26/2013 11:34
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135113	8/19/2013 9:16
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135188	8/21/2013 13:15
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Justin Chapel - Public Works Supervisor
Justin Chapel - Public Works Superintendent

6507807469
6507807469

2SSO10169	Active	712804 Johnny Tucker	Certified
2SSO10169	Active	712808 Bonner Beuhler	Certified
2SSO10169	Active	714122 Bonner Beuhler	Certified
2SSO10169	Active	714558 Johnny Tucker	Certified
2SSO10169	Active	715377 Johnny Tucker	Certified
2SSO10169	Active	715384 Johnny Tucker	Certified
2SSO10169	Active	716393 Johnny Tucker	Certified
2SSO10169	Active	717217 Bonner Beuhler	Certified
2SSO10169	Active	717913 Johnny Tucker	Certified
2SSO10169	Active	719942 Johnny Tucker	Certified
2SSO10169	Active	721103 Johnny Tucker	Certified
2SSO10169	Active	724592 Bonner Beuhler	Certified
2SSO10169	Active	725058 Bonner Beuhler	Certified
2SSO10169	Active	726603 Johnny Tucker	Certified
2SSO10169	Active	726607 Johnny Tucker	Certified
2SSO10169	Active	727780 Bonner Beuhler	Certified
2SSO10169	Active	728071 Johnny Tucker	Certified
2SSO10169	Active	729213 Bonner Beuhler	Certified
2SSO10169	Active	729831 Johnny Tucker	Certified
2SSO10169	Active	730143 Bonner Beuhler	Certified
2SSO10169	Active	731052 Bonner Beuhler	Certified
2SSO10169	Active	731461 Johnny Tucker	Certified
2SSO10169	Active	731720 Johnny Tucker	Certified
2SSO10169	Active	737270 Johnny Tucker	Certified
2SSO10169	Active	737839 Johnny Tucker	Certified
2SSO10169	Active	742251 Johnny Tucker	Certified
2SSO10169	Active	742896 Johnny Tucker	Certified
2SSO10169	Active	745310 Johnny Tucker	Certified
2SSO10169	Active	745353 Johnny Tucker	Certified
2SSO10169	Active	748106 Johnny Tucker	Certified
2SSO10169	Active	752181 Johnny Tucker	Certified
2SSO10169	Active	754745 Johnny Tucker	Certified
2SSO10169	Active	758302 Johnny Tucker	Certified
2SSO10169	Active	763787 Johnny Tucker	Certified
2SSO10169	Active	774154 Johnny Tucker	Certified
2SSO10169	Active	782290 Johnny Tucker	Certified
2SSO10169	Active	793377 Johnny Tucker	Certified
2SSO10170	Active	651848 Bill Lindsay	Certified
2SSO10170	Active	652441 Bill Lindsay	Certified
2SSO10170	Active	653353 Bill Linday	Certified
2SSO10170	Active	655187 Bill Linday	Certified
2SSO10170	Active	655983 Bill Lindsay	Certified
2SSO10170	Active	656755 Bill Lindsay	Certified
2SSO10170	Active	656893 Bill Lindsay	Certified
2SSO10170	Active	657011 Bill Lindsay	Certified
2SSO10170	Active	657509 Bill Lindsay	Certified
2SSO10170	Active	657884 Mary Phelps	Certified
2SSO10170	Active	704452 BILL LINDSAY	Certified
2SSO10170	Active	704453 BILL LINDSAY	Certified
2SSO10170	Active	704864 Bill Lindsay	Certified
2SSO10170	Active	705816 Bill Lindsay	Certified
2SSO10170	Active	706929 Bill Lindsay	Certified
2SSO10170	Active	706934 Bill Lindsay	Certified
2SSO10170	Active	707636 Bill Lindsay	Certified
2SSO10170	Active	707951 Bill Lindsay	Certified

District Manager
Manager
Manager
District Manager
Assistant Manager
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City Manager
City Manager
City Manager
Source Control Inspector III
CITY MANAGER
CITY MANAGER
City Manager
City Manager
City Manager
City Manager
City Manager
City Manager

0636hrs.	880103
Tiburon, CA 94920	587862
Tiburon, CA	995709
0644hrs.	500550
11:46 A.M.	761240
12:01 P.M.	172299
	12:57 445019
Tiburon, CA 94920	346728
0711hrs.	782463
08:03 a.m.	622813
0714hrs.	517248
Tiburon, CA	839234
Tiburon, CA	589720
0713hrs.	797961
0905 hrs.	799451
Tiburon, CA	273495
0641hrs.	728453
Tiburon, CA	168404
0639hrs.	684873
Tiburon, CA	768074
Tiburon, CA	881103
0932 hrs.	759763
1318 hrs.	119610
11:58 A.M.	105367
1108 hrs.	132935
1123 hrs.	418072
0928 hrs.	288972
0618 hrs.	599285
1311 hrs.	522726
1339 hrs	486627
1155 hrs.	767981
1357 hrs.	729641
0808 hrs.	817472
0851 hrs.	338702
1206 hrs.	119248
1211hrs.	736201
1252hrs	582157
Richmond, CA	650390
Richmond, CA	370818
The City of Richmond	852108
The City of Richmond	232645
2:54 p.m.	717546
The City of Richmond	822699
The City of Richmond	356917
The City of Richmond	987938
The City of Richmond	474908
Richmond, CA	529443
CITY OF RICHMOND	683952
CITY OF RICHMOND	545833
Richmond, CA	327970
Richmond, CA	870838
Richmond, CA	468553
Richmond, CA	282033
Richmond, CA	120258
Richmond, CA	260488

13-Feb-08		13-Feb-08	12/3/2010
13-Feb-08		13-Feb-08	2/13/2008
28-Feb-08		28-Feb-08	2/28/2008
6-Mar-08		6-Mar-08	12/3/2010
26-Mar-08		26-Mar-08	3/26/2008
26-Mar-08		26-Mar-08	3/26/2008
22-Apr-08		22-Apr-08	4/22/2008
12-May-08		13-May-08	5/13/2008
23-May-08		23-May-08	12/3/2010
20-Jun-08		20-Jun-08	6/20/2008
1-Jul-08		1-Jul-08	12/3/2010
13-Aug-08		13-Aug-08	8/13/2008
22-Aug-08		22-Aug-08	8/22/2008
22-Sep-08		22-Sep-08	12/3/2010
22-Sep-08		22-Sep-08	9/22/2008
13-Oct-08		13-Oct-08	10/13/2008
17-Oct-08		17-Oct-08	12/3/2010
13-Nov-08		13-Nov-08	11/13/2008
25-Nov-08		25-Nov-08	12/3/2010
3-Dec-08		3-Dec-08	12/3/2008
24-Dec-08		24-Dec-08	12/24/2008
6-Jan-09		6-Jan-09	1/6/2009
12-Jan-09		12-Jan-09	1/12/2009
11-May-09		11-May-09	5/11/2009
22-May-09		22-May-09	5/22/2009
3-Aug-09		3-Aug-09	8/6/2009
12-Aug-09		12-Aug-09	8/12/2009
2-Oct-09		2-Oct-09	10/2/2009
5-Oct-09		5-Oct-09	10/5/2009
4-Jan-10		4-Jan-10	1/4/2010
5-May-10		5-May-10	5/5/2010
12-Jul-10	7/12/2010	12-Jul-10	7/12/2010
2-Nov-10	11/2/2010	2-Nov-10	11/2/2010
28-Feb-11	2/28/2011	28-Feb-11	2/28/2011
15-Dec-11	12/15/2011	15-Dec-11	12/15/2011
20-Jun-12	6/20/2012	20-Jun-12	6/20/2012
15-Apr-13	4/15/2013	15-Apr-13	4/15/2013
13-Jun-07		19-Jun-07	6/19/2007
19-Jun-07		19-Jun-07	6/19/2007
2-Jul-07		17-Sep-07	9/17/2007
2-Aug-07		17-Sep-07	9/17/2007
17-Aug-07		5-Sep-07	9/5/2007
31-Aug-07		17-Sep-07	9/17/2007
5-Sep-07		17-Sep-07	9/17/2007
7-Sep-07		17-Sep-07	9/17/2007
17-Sep-07		17-Sep-07	9/17/2007
21-Sep-07		9-Oct-07	10/25/2011
1-Oct-07		9-Oct-07	10/9/2007
1-Oct-07		9-Oct-07	10/9/2007
9-Oct-07		9-Oct-07	10/31/2007
19-Oct-07		31-Oct-07	10/31/2007
31-Oct-07		30-Nov-07	11/30/2007
31-Oct-07		30-Nov-07	3/28/2011
13-Nov-07		30-Nov-07	11/30/2007
20-Nov-07		30-Nov-07	11/30/2007

Category 1	75	0
Category 3	25	
Category 3	800	0
Category 1	20	0
Category 3	10	0
Category 3	100	0
Category 3	100	0
Category 1	400	190
Category 3	10	0
Category 3	5	2
Category 3	50	8
Category 3	20	0
Category 3	200	0
Category 3	225	0
Category 3	50	0
Category 3	50	0
Category 1	75	10
Category 3	25	5
Category 1	50	30
Category 3	600	0
Category 3	25	20
Category 3	50	0
Category 3	10	0
Category 3	20	0
Category 3	20	0
Category 3	650	50
Category 3	300	0
Category 3	3	0
Category 3	100	100
Category 3	5	0
Category 3	400	350
Category 3	90	60
Category 3	50	0
Category 3	70	0
Category 3	20	20
Category 3	150	0
Category 1	375	0
Category 3	55	55
Category 2	1496	1496
Category 3	525	525
Category 3	50	50
Category 3	40	0
Category 3	8	0
Category 3	10	10
Category 3	10	10
Category 3	25	25
Category 3	200	200
Category 3	3	3
Category 3	80	80
Category 3	75	75
Category 3	85	85
Category 3	75	75
Category 3	80	60
Category 3	20	20
Category 3	35	35

75 Yes	Yes
No	No
No	No
20 Yes	Yes
0 No	No
0 No	No
0 No	No
210 Yes	Yes
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
65 Yes	Yes
0 No	No
20 Yes	Yes
0 No	No
0 No	No
0 No	Yes
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	Yes
0 No	No
0 No	Yes
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0 No	No
0 No	No
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0 No	No
1 No	No
No	No
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No	No
0 No	No
No	No
No	No
No	No
No	No
0 No	No
No	No
No	No

Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe

Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe

Not Applicable - Spill did not reach a separate storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach a separate storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach a separate storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe

Not Applicable - Spill did not reach storm drainpipe

Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe

[illegible]

Not Applicable - Spill did not reach storm drainpipe

Not Applicable - Spill did not reach storm drainpipe

Not Applicable - Spill did not reach a separate storm drainpipe
Not Applicable - Spill did not reach a separate storm drainpipe
Not Applicable - Spill did not reach a separate storm drainpipe
Not Applicable - Spill did not reach a separate storm drainpipe

Not Applicable - Spill did not reach storm drainpipe

Not Applicable - Spill did not reach storm drainpipe

Not Applicable - Spill did not reach storm drainpipe

Not Applicable - Spill did not reach storm drainpipe

Not Applicable - Spill did not reach a separate storm drainpipe

Not Applicable - Spill did not reach storm drainpipe

Not Applicable - Spill did not reach storm drain/pipe

Not Applicable Spill did not reach a separate storm drainpipe

Not Applicable Spill did not reach storm drainpipe

Not Applicable - Spill did not reach storm drain/pipe

MH BG 151.09
MH SW 117.01
MH HP 220.01
MH HP 210.07
700 Tiburon Blvd.
137 Reed Blvd.
east strawberry
MH SW 120.01
MH HP 130.03
336 East Strawberry Dr.
129 Reed Blvd.
MH TG 240.09
MH TG 240.17
MH SW 412.09
MH SW 420.03
RH SW 141.07
MH TG 210.07
RH RR 242.21
MH HT 233.05 and MH HT 233.11
MH DM 250.19
MH BG 151.11
41 Mercury Ave.
26 Apollo
mh 427.37
MH SW 120.01
MH SW 412.11
MH TG 122.07
MH RR 264.13
MH SW 427.01
MH RR 262.01
MH SW 412.19
MH SW 423.09
MH TG 210.07
MH HP 220.07
RH SW 411.15
MH HT 210.05
Del Mar
279 Harbour Way South
13TH STREET & PENNSYLVANIA AVENUE
15TH STREET AND COSTA AVENUE
130 33RD STREET
2729 CUTTING BOULEVARD
709 TEWKSBURY AVENUE
668 Lassen Street
2314 MARICOPA
10823 SAN PABLO AVENUE
300 32nd Street
458 MOUNT STREET
456 27TH STREET
2017 CUTTING BOULEVARD
1689 REGATTA Boulevard
669 35TH STREET
40 WESTERN DRIVE
5216 WALL AVENUE
16 16TH STREET

37.89603	-122.49426 Marin
37.89122	122.50485 Marin
37.88071	122.50237 Marin
37.8825	-122.50274 Marin
37.88879	122.47829 Marin
37.89748	122.50776 Marin
37.88918	122.50362 Marin
37.89896	122.50444 Marin
37.89714	-122.49722 Marin
37.89062	122.50467 Marin
37.89787	-122.5087 Marin
37.89389	122.48407 Marin
37.8951	122.48251 Marin
37.89729	-122.49714 Marin
37.89993	122.49874 Marin
37.89814	122.50788 Marin
37.89508	-122.48662 Marin
37.89797	122.50948 Marin
37.8905	-122.47734 Marin
37.892	122.47681 Marin
37.89603	122.49445 Marin
37.90125	122.48743 Marin
37.90123	122.4855 Marin
37.90448	-122.49493 Marin
37.89888	-122.5044 Marin
37.89729	-122.49714 Marin
37.90005	-122.49052 Marin
37.9031	-122.51218 Marin
37.90195	-122.49644 Marin
37.90136	-122.51215 Marin
37.89585	-122.49603 Marin
37.90414	-122.50089 Marin
37.89481	-122.48721 Marin
37.88038	-122.50154 Marin
37.89852	-122.49797 Marin
37.8904	-122.47893 Marin
37.89451	-122.48156 Marin
37.93	-122.36 Contra Costa
37.933333	-122.35 Contra Costa
37.95	-122.35 Contra Costa
37.916667	-122.333333 Contra Costa
37.916667	-122.333333 Contra Costa
37.916667	-122.383333 Contra Costa
37.933333	-122.316667 Contra Costa
37.95	-122.35 Contra Costa
37.91	-122.31 Contra Costa
37.93467	-122.33844 Contra Costa
37.94	-122.32 Contra Costa
37.94	-122.34 Contra Costa
37.93	-122.35 Contra Costa
37.92	-122.35 Contra Costa
37.94	-122.33 Contra Costa
37.92148	-122.38691 Contra Costa
37.93	-122.32 Contra Costa
37.93	-122.35 Contra Costa

[illegible]

Manhole in front of 6 Southridge East.
Manhole in front of 24 East Strawberry Drive.
Back yard of 24 Great Circle Way.
MH HP 210.07 across street from 10 Great Circle
behind tennis courts
behind house in easment

Manhole in east bound lane of Tiburon Blvd. Hwy 131

Start of run at Rodhole. Only one connection upstream of stoppage.
Backyard of 562 Tanaya Drive
Backyard of 26 Sutter Ct. in dirt yard area

Rod Hole in back yard of 144 Richardson Drive. Rod hole located in easement between upper and lower properties
Manhole in Stewart Drive at Tiburon Blvd.
Rod hole at beginning of sewer line. 1 or 2 houses upstream of blockage.
MH in street

Manhole on bank of hillside across from 6 Southridge East

middle of Tiburon Blvd.
spill was from a manhole behind the apartment building on a slope.
spill occurred in the lower portion of the residents backyard
the caller reported his sewer in the house was flowing slowly
spill was from a manhole in the middle of the street
weeping from a manhole cover
spill appeared at a 4 inch c.o. and was overflowing in the dirt floor basement area under the building and flow to a v ditch

parking lot in front of building
behind backyard fence in easment
Del Mar

MAINTENANCE HOLE OVERFLOW

NEXT TO MIDDLE SCHOOL

RESIDENTIAL

and was in a storm drain vault the vault

Manhole
Manhole
Manhole
Manhole
Force main or pressure sewer
Gravity sewer
Manhole
Manhole
Manhole
Manhole
Gravity sewer
Manhole
Manhole
Manhole
Gravity sewer
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Building or structure
Manhole
Manhole
Manhole
Other sewer system structure
Manhole
Gravity sewer
Other (specify)
Manhole
Manhole
Manhole
Manhole
Manhole
Other (specify)
Manhole
Manhole
Manhole
Other (specify)
Manhole
Manhole
Manhole
Manhole
Manhole
Other (specify)

water had come out of the manhole and was absorbed by the surrounding dirt
when we arrived onsite there was no water coming out of the manhole but the manhole was surcharged the street curb ar
water weeping from a manhole cover

Rodhole in front of building

Manhole
Sewage bubbled up through sidewalk

City sewage backed up through a private lateral and discharged into basement of subject address.

THE OVERFLOW OCCURRED FROM A TOILET AT THE RESIDENCE DUE TO THE CITY'S MAIN BACKING UP (OB

LATERAL

Separate storm drain;Street/curb and gutter
Street/curb and gutter
Unpaved surface
Separate storm drain
Unpaved surface
Unpaved surface
Unpaved surface
Surface water
Street/curb and gutter
Other paved surface;Street/curb and gutter
Unpaved surface
Unpaved surface
Unpaved surface
Unpaved surface
Unpaved surface
Unpaved surface
Separate storm drain
Street/curb and gutter
Separate storm drain;Street/curb and gutter
Unpaved surface
Other paved surface;Street/curb and gutter
Street/curb and gutter;Unpaved surface
Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Other (specify below)
Unpaved surface
Street/curb and gutter
Storm drain;Street/curb and gutter
Street/curb and gutter
Beach;Storm drain
Street/curb and gutter
Street/curb and gutter
Unpaved surface
Other paved surface
Unpaved surface
Other paved surface;Unpaved surface
Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Other paved surface
Other paved surface
Building or structure
Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Building or structure
Street/curb and gutter
Street/curb and gutter
Unpaved surface
Street/curb and gutter
Beach;Other paved surface;Street/curb and gutter
Street/curb and gutter
Street/curb and gutter

in backyard easment in a 6 inch sewer that serves just 4 homes

small spill in the middle of the highway the water evaporated before it could be returned to sewer
a portion of the spill was collected in a concrete gutter below the apartments. the remaining water was absorbed by the dry
spill was absorbed into the dirt around the manhole and there was no puddling of water to be returned to the system.
the spill was nothing more than a wet spot on the pavement from us opening the manhole
the spill entered a storm drain at the curb and filled the catch basin at the next storm drain cover but did not proceed farther
water evaporated on pavement in street

off the edge of the pavement absorbed by the dirt

OVERFLOW DISCHARGED FROM MH TO STREET, DOWNHILL TO PUBLIC PICNIC AREA/ACCESS ROAD AND PERC

2/11/2008 7:45	2/11/2008 8:15	2/11/2008 8:30	2/11/2008 8:45
2/11/2008 9:45	2/11/2008 10:00	2/11/2008 10:15	2/11/2008 10:30
4/15/2007 15:00	4/16/2007 7:00	4/16/2007 8:00	4/16/2007 9:15
3/5/2008 14:45	3/5/2008 14:50	3/5/2008 15:10	3/5/2008 15:15
3/20/2008 10:30	3/20/2008 10:30	3/20/2008 11:00	3/20/2008 11:15
3/25/2008 7:15	3/25/2008 7:15	3/25/2008 7:30	3/25/2008 10:30
4/15/2008 10:10	4/15/2008 10:10	4/15/2008 10:15	4/15/2008 11:00
5/11/2008 10:00	5/11/2008 10:00	5/11/2008 10:55	5/11/2008 13:20
5/19/2008 12:50	5/19/2008 12:55	5/19/2008 13:05	5/19/2008 13:15
6/16/2008 8:40	6/16/2008 8:40	6/16/2008 8:45	6/16/2008 8:55
6/28/2008 21:00	6/28/2008 21:10	6/28/2008 21:30	6/28/2008 23:00
8/12/2008 15:40	8/12/2008 15:50	8/12/2008 16:00	8/12/2008 16:10
8/21/2008 16:45	8/21/2008 17:00	8/21/2008 17:25	8/21/2008 18:00
9/15/2008 8:15	9/15/2008 8:18	9/15/2008 9:00	9/15/2008 9:45
9/17/2008 22:00	9/17/2008 22:00	9/17/2008 22:15	9/17/2008 22:30
10/9/2008 14:00	10/9/2008 14:30	10/9/2008 14:45	10/9/2008 15:00
10/16/2008 10:20	10/16/2008 10:25	10/16/2008 10:35	10/16/2008 11:00
11/12/2008 7:30	11/12/2008 7:40	11/12/2008 7:50	11/12/2008 8:05
11/24/2008 9:10	11/24/2008 9:15	11/24/2008 9:30	11/24/2008 10:30
12/1/2008 6:00	12/1/2008 12:15	12/1/2008 12:45	12/1/2008 13:30
12/22/2008 9:30	12/22/2008 9:40	12/22/2008 10:00	12/22/2008 10:25
1/2/2009 10:55	1/2/2009 10:55	1/2/2009 11:05	1/2/2009 11:20
1/10/2009 8:30	1/10/2009 8:30	1/10/2009 8:30	1/10/2009 9:00
5/7/2009 8:00	5/7/2009 8:00	5/7/2009 8:30	5/7/2009 9:00
5/21/2009 9:00	5/21/2009 9:00	5/21/2009 9:05	5/21/2009 9:15
8/1/2009 11:00	8/1/2009 17:50	8/1/2009 18:58	8/1/2009 19:30
8/8/2009 15:15	8/8/2009 15:30	8/8/2009 16:00	8/8/2009 17:10
9/29/2009 9:15	9/29/2009 9:20	9/29/2009 9:30	9/29/2009 9:45
10/3/2009 9:00	10/3/2009 9:05	10/3/2009 9:30	10/3/2009 9:35
12/31/2009 16:30	12/31/2009 16:30	12/31/2009 16:40	12/31/2009 17:00
5/3/2010 9:30	5/3/2010 11:30	5/3/2010 11:50	5/3/2010 12:20
7/11/2010 9:23	7/11/2010 9:23	7/11/2010 10:40	7/11/2010 10:50
10/29/2010 17:00	10/29/2010 17:00	10/29/2010 17:20	10/29/2010 17:45
2/27/2011 12:00	2/27/2011 1:45	2/27/2011 2:06	2/27/2011 3:15
12/14/2011 8:30	12/14/2011 8:30	12/14/2011 8:45	12/14/2011 9:00
6/18/2012 8:30	6/18/2012 8:00	6/18/2012 9:00	6/18/2012 10:00
4/14/2013 12:50	4/14/2013 12:50	4/14/2013 13:30	4/14/2013 14:45
6/12/2007 0:00	6/12/2007 14:43	6/12/2007 14:53	6/12/2007 15:10
6/18/2007 0:00	6/18/2007 9:50	6/18/2007 9:55	6/18/2007 10:05
6/29/2007 0:00	6/29/2007 9:30	6/29/2007 9:45	6/29/2007 10:30
7/30/2007 0:00	7/30/2007 9:04	7/30/2007 9:15	7/30/2007 9:40
8/16/2007 0:00	8/16/2007 10:50	8/16/2007 10:45	8/16/2007 11:00
8/30/2007 0:00	8/30/2007 10:30	8/30/2007 10:45	8/30/2007 11:00
9/3/2007 0:00	9/3/2007 13:15	9/3/2007 14:05	9/3/2007 14:15
9/6/2007 0:00	9/6/2007 9:15	9/6/2007 9:25	9/6/2007 9:45
9/14/2007 0:00	9/14/2007 14:00	9/14/2007 14:15	9/14/2007 14:30
9/21/2007 0:00	9/21/2007 12:30	9/21/2007 12:35	9/21/2007 12:45
9/25/2007 0:00	9/25/2007 8:20	9/25/2007 8:30	9/25/2007 8:30
10/1/2007 0:00	10/1/2007 10:45	10/1/2007 10:50	10/1/2007 11:00
10/1/2007 0:00	10/1/2007 7:40	10/1/2007 7:45	10/1/2007 7:55
10/15/2007 0:00	10/15/2007 10:00	10/15/2007 10:10	10/15/2007 10:30
10/28/2007 0:00	10/28/2007 14:45	10/28/2007 15:30	10/28/2007 15:45
10/21/2007 0:00	10/21/2007 9:20	10/21/2007 9:50	10/21/2007 9:50
11/13/2007 0:00	11/13/2007 8:35	11/13/2007 8:50	11/13/2007 8:50
11/16/2007 0:00	11/16/2007 17:10	11/16/2007 18:00	11/16/2007 19:00

Root intrusion
Grease deposition (FOG)
Grease deposition (FOG)
Other (specify below)
Pipe structural problem/failure
Root intrusion
Grease deposition (FOG)
Root intrusion
Debris-General
Grease deposition (FOG)
Other (specify below)
Other (specify below)
Root intrusion
Other (specify below)
Other (specify below)
Debris
Other (specify below)
Root intrusion
Root intrusion
Other (specify below)
Other (specify below)
Grease deposition (FOG)
Root intrusion
Other (specify below)
Root intrusion
Root intrusion
Root intrusion
Root intrusion
Other (specify below)
Debris-General
Debris-Rags
Debris-Rags
Root intrusion
Debris-General
Debris-Rags
Root intrusion
Other (specify below)
Grease deposition (FOG)
Grease deposition (FOG)
Grease deposition (FOG)
Grease deposition (FOG)
Grease deposition (FOG)
Grease deposition (FOG)
Grease deposition (FOG)
Grease deposition (FOG)
Grease deposition (FOG)
Grease deposition (FOG)
Grease deposition (FOG)
Pipe structural problem/failure
Root intrusion
Pipe structural problem/failure
Debris
Debris
Root intrusion
Grease deposition (FOG)
Grease deposition (FOG)

Root ball from private lateral at mouth of manhole exit pipe

Stoppage was caused by a bunch of hand towels.

Mouth of exit pipe from manhole plugged by root ball, debris that lodged in mouth of pipe.

roots and paper are to blame for this spill

roots and residential grease are to blame for this spill

Appeared to be handi wipes or other debris.

Handiwipes and roots

Combination of roots, grease, debris

Grease, paper

Most likely a root ball from house lateral not trapped by private cleaning firm, blockage at mouth of pipe leaving manhole

handi wipes

the spill was caused by a root ball growing from inside a private lateral that ties into the manhole the roots grew into the fl there was a small amount of roots in the line causing a partial stoppage that was slowing the flow of sewage. the only wat the spill was caused by the pavement rehab contractor depositing a large piece of plastic sheeting used to protect the ma there is private construction upstream of stoppage location that may have produced the debris gravel in our gravity main.

the 8 inch sewer had a ball of painters rags in the flow line causing a partial stoppage where by the majority of the flow wa

Root ball

May be poorly operating private lateral under sidewalk

MANHOLE IS NEAR A CONSTRUCTION SITE, AND CONSTRUCTION DEBRIS WAS FOUND IN THE SANITARY SEV

ROOTS, BROKEN PIPE & LARGE OFFSET

DISCHARGE HAD ALREADY CEASED WHEN SEWER CREW ARRIVED ON SCENE.

GREASE BLOCKAGE IN CITY'S SANITARY SEWER MAIN FROM RESIDENCE.

Main

Main

Main

Main

Main

Main

Main

Main

Main

Main

Main

Main

Main

Main

Main

Main

Main

Main

Main

Main

Main

Other (specify below)

Main

VER LINE.

Main

spill caused by roots growing in the main from the lateral connection.

Manhole

6
6
8 HDPE

6 cast iron
6 VCP

6 VCP
6 cast iron
6
6 VCP
6 vcp
8 vcp
6

6 VCP
6 VCP
6
6 vcp
6 Clay
6 clay
6 vcp
8 VCP
6 VCP
6 plastic
6 vcp
8 vcp
6 vcp
6 vcp
8 vcp
6 VCP
6 vcp

6 vcp
6 vcp

35

30

50

40

40

54

54

50

50

50

62

50

8

60

50

50

50

55

55

55

55

60

Cleaned up area, removed small amount of sewage from curb and gutter, applied bleach solution.

Sprayed wet spot on street with Bleach.

Vactor was used to remove affected materials and hauled to appropriate disposal site.

Vactored out storm drain and hydro cleaned storm drain and curb and gutter

we hydroflushed and vactored out the contacted storm drain pipes and catch basins that are approx. 100 feet apart and w

cleared stoppage washed asphalt back into sewer and the dirt absorbed the remainig

CONDUCTED PUBLIC OUTREACH WITH DOOR HANGERS AND SCRAPPERS IN UPSTREAM NEIGHBORHOOD.
ON 8/30/07 THE CITY'S INDUSTRIAL PRETREATMENT PROGRAM DID PUBLIC OUTREACH TO 14 RESIDENTIAL L

REMOVED DEBRIS FROM SANITARY SEWER LINE AND ADDRESSED ISSUE WITH CONTRACTOR CONDUCTING

2/11/2008 9:15

3/5/2008 15:30

5/11/2008 14:30

10/16/2008 11:45

11/24/2008 12:30

1/2/2009 11:30

5/3/2010 12:45

6/18/2007 12:00

Added sewer to preventive maintenance program

Other (specify below)

Added sewer to preventive maintenance program

Added sewer to preventive maintenance program;Other (specify below)

Adjusted schedule/method of preventive maintenance

Other (specify below)

Other (specify below)

Adjusted schedule/method of preventive maintenance;Other (specify below)

Discussed need for trapping of roots from private lateral spill with Roto Rooter.

Will CCTV line.

spill was caused by property owner at 29 mercury cleaning private lateral and pushed grease into main.the homeowner at

no corrective action taken as the source of the spill is out of the districts control.

CONDUCTED PUBLIC OUTREACH BY DEPLOYING 66 FOG DOORHANGERS AND FOOD/GREASE SCRAPERS TO

No

No

Yes

No

No

No

No

No

No visual impact on receiving waters. Discharge was at a rate of about 1 to 3 GPM.

No

No

Yes

No

No

No

No

No

NA

NA

NA

NA

NA

NA

NA

NA

Richardson Bay

Richardson Bay

Salt Works drainage channel which empties into Richardson Bay.

Richardson Bay

Richardson Bay

NA

NA

NONE

none

none the spill was in the parking lot and was entirely returned to the main.

no impact to surface water the spill was absorbed by the ground.

richardson bay

NA

None

None

Not applicable to this spill

Not applicable to this spill

Biological indicator(s) - specify below

No water quality samples taken;Not applicable to this spill

No water quality samples taken;Not applicable to this spill

Not applicable to this spill

Not applicable to this spill

Not applicable to this spill

Coliform

None of the above

Not applicable to this spill

None of the above

No water quality samples taken

No water quality samples taken

Not applicable to this spill

None of the above

Not applicable to this spill

Samples taken to Sewerage Agency of Southern Marin laboratory.

83418 5/11/2008 13:55

73674 6/18/2007 13:46

2SSO10170	Active	707952 Bill Lindsay	Certified
2SSO10170	Active	708553 Bill Lindsay	Certified
2SSO10170	Active	708902 BILL LINDSAY	Certified
2SSO10170	Active	708903 BILL LINDSAY	Certified
2SSO10170	Active	709535 BILL LINDSAY	Certified
2SSO10170	Active	710251 BILL LINDSAY	Certified
2SSO10170	Active	710252 BILL LINDSAY	Certified
2SSO10170	Active	710773 Bill Lindsay	Certified
2SSO10170	Active	710788 BILL LINDSAY	Certified
2SSO10170	Active	710825 BILL LINDSAY	Certified
2SSO10170	Active	710834 BILL LINDSAY	Certified
2SSO10170	Active	710844 BILL LINDSAY	Certified
2SSO10170	Active	711054 Bill Lindsay	Certified
2SSO10170	Active	711149 Bill Lindsay	Certified
2SSO10170	Active	711150 Bill Lindsay	Certified
2SSO10170	Active	711732 Bill Lindsay	Certified
2SSO10170	Active	711851 Bill Lindsay	Certified
2SSO10170	Active	711854 Bill Lindsay	Certified
2SSO10170	Active	711855 Bill Lindsay	Certified
2SSO10170	Active	711856 Bill Lindsay	Certified
2SSO10170	Active	711857 Bill Lindsay	Certified
2SSO10170	Active	711859 BILL LINDSAY	Certified
2SSO10170	Active	711955 Bill Lindsay	Certified
2SSO10170	Active	712811 Bill Lindsay	Certified
2SSO10170	Active	712817 Bill Lindsay	Certified
2SSO10170	Active	712819 Bill Lindsay	Certified
2SSO10170	Active	712820 Bill Lindsay	Certified
2SSO10170	Active	712824 Bill Lindsay	Certified
2SSO10170	Active	712832 Mary Phelps	Certified
2SSO10170	Active	714863 BILL LINDSAY	Certified
2SSO10170	Active	714864 BILL LINDSAY	Certified
2SSO10170	Active	715109 BILL LINDSAY	Certified
2SSO10170	Active	715110 Bill Lindsay	Certified
2SSO10170	Active	715142 Bill Lindsay	Certified
2SSO10170	Active	715162 Bill Lindsay	Certified
2SSO10170	Active	715176 Bill Lindsay	Certified
2SSO10170	Active	715194 Bill Lindsay	Certified
2SSO10170	Active	715195 Bill Lindsay	Certified
2SSO10170	Active	715198 Bill Lindsay	Certified
2SSO10170	Active	715199 Bill Lindsay	Certified
2SSO10170	Active	715202 Bill Lindsay	Certified
2SSO10170	Active	715204 Bill Lindsay	Certified
2SSO10170	Active	715205 Bill Lindsay	Certified
2SSO10170	Active	715206 Bill Lindsay	Certified
2SSO10170	Active	715242 Bill Lindsay	Certified
2SSO10170	Active	716081 BILL LINDSAY	Certified
2SSO10170	Active	716288 BILL LINDSAY	Certified
2SSO10170	Active	718821 BILL LINDSAY	Certified
2SSO10170	Active	718829 BILL LINDSEY	Certified
2SSO10170	Active	721148 BILL LINDSAY	Certified
2SSO10170	Active	721926 BILL LINDSAY	Certified
2SSO10170	Active	727225 Bill Lindsay	Certified
2SSO10170	Active	728147 Bill Lindsay	Certified
2SSO10170	Active	733187 BILL LINDSAY	Certified
2SSO10170	Active	733497 BILL LINDSAY	Certified

City Manager
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Source Control Inspector III
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Richmond, CA	914309
Richmond, CA	487413
RICHMOND	704162
RICHMOND	838047
RICHMOND	582689
RICHMOND	173165
RICHMOND	467733
Richmond, CA	844807
RICHMOND	930733
RICHMOND	282078
RICHMOND	537093
RICHMOND	222321
Richmond	324817
Richmond, CA	375131
Richmond, CA	239262
Richmond, CA	520747
Richmond, CA	261498
Richmond, CA	746782
Richmond, CA	551004
Richmond, CA	189851
Richmond, CA	709590
RICHMOND	864841
Richmond, CA	984748
Richmond	483106
Richmond, CA	491069
Richmond, CA	883791
Richmond, CA	917017
Richmond, CA	772140
Richmond, CA	553254
RICHMOND	265943
RICHMOND	676098
RICHMOND	499428
Richmond, CA	973683
Richmond, CA	431601
Richmond, CA	986651
Richmond, CA	544962
Richmond, CA	541187
Richmond, CA	994479
Richmond, CA	229972
Richmond, CA	925692
Richmond, CA	723042
Richmond, CA	192307
Richmond, CA	762415
Richmond, CA	605425
Richmond, CA	539822
RICHMOND, CA	900385
RICHMOND, CA	620393
RICHMOND, CA	204514
RICHMOND, CA	890365
RICHMOND	584608
RICHMOND	632882
City of Richmond	842662
City of Richmond	222457
CITY OF RICHMOND	176094
CITY OF RICHMOND	752069

20-Nov-07	30-Nov-07	11/30/2007
30-Nov-07	30-Nov-07	11/30/2007
10-Dec-07	21-Feb-08	2/21/2008
10-Dec-07	21-Feb-08	2/21/2008
14-Dec-07	21-Feb-08	2/21/2008
24-Dec-07	21-Feb-08	2/21/2008
24-Dec-07	21-Feb-08	2/21/2008
7-Jan-08	15-Feb-08	2/15/2008
7-Jan-08	21-Feb-08	2/21/2008
7-Jan-08	21-Feb-08	2/21/2008
7-Jan-08	21-Feb-08	2/21/2008
7-Jan-08	21-Feb-08	2/21/2008
9-Jan-08	15-Feb-08	2/15/2008
11-Jan-08	5-Feb-08	12/3/2010
11-Jan-08	5-Feb-08	12/2/2010
25-Jan-08	5-Feb-08	2/5/2008
25-Jan-08	5-Feb-08	2/5/2008
25-Jan-08	5-Feb-08	2/5/2008
25-Jan-08	5-Feb-08	2/5/2008
25-Jan-08	5-Feb-08	2/5/2008
25-Jan-08	5-Feb-08	2/5/2008
25-Jan-08	3-Mar-08	3/3/2008
28-Jan-08	5-Feb-08	2/5/2008
13-Feb-08	15-Feb-08	2/15/2008
14-Feb-08	15-Feb-08	2/15/2008
14-Feb-08	15-Feb-08	2/15/2008
14-Feb-08	3-Mar-08	12/2/2010
14-Feb-08	15-Feb-08	12/3/2010
14-Feb-08	15-Feb-08	10/25/2011
13-Mar-08	31-Mar-08	3/31/2008
13-Mar-08	31-Mar-08	3/31/2008
20-Mar-08	31-Mar-08	3/31/2008
20-Mar-08	31-Mar-08	12/3/2010
21-Mar-08	31-Mar-08	12/3/2010
21-Mar-08	31-Mar-08	12/3/2010
21-Mar-08	31-Mar-08	12/3/2010
24-Mar-08	31-Mar-08	12/3/2010
24-Mar-08	31-Mar-08	12/3/2010
24-Mar-08	31-Mar-08	12/3/2010
24-Mar-08	31-Mar-08	12/2/2010
24-Mar-08	31-Mar-08	12/3/2010
24-Mar-08	31-Mar-08	12/3/2010
24-Mar-08	31-Mar-08	12/3/2010
24-Mar-08	31-Mar-08	12/3/2010
24-Mar-08	31-Mar-08	12/3/2010
11-Apr-08	4-Jun-08	6/4/2008
18-Apr-08	4-Jun-08	6/4/2008
4-Jun-08	4-Jun-08	6/4/2008
4-Jun-08	4-Jun-08	6/4/2008
1-Jul-08	4-Sep-08	9/4/2008
9-Jul-08	4-Sep-08	9/4/2008
1-Oct-08	7-Jan-09	1/7/2009
20-Oct-08	7-Jan-09	1/7/2009
5-Feb-09	18-Mar-09	3/18/2009
12-Feb-09	18-Mar-09	3/18/2009

Category 3	30	30
Category 3	15	15
Category 3	15	15
Category 3	100	100
Category 3	30	30
Category 3	5	5
Category 3	750	750
Category 1	529214	0
Category 1	11700	0
Category 1	28500	0
Category 1	29000	0
Category 1	4125	0
Category 3	100	100
Category 1	1	0
Category 1	1	0
Category 3	30	0
Category 1	126000	0
Category 1	84000	0
Category 1	105000	0
Category 1	101400	0
Category 1	117000	0
Category 1	1221925	0
Category 1	5100	0
Category 3	10	10
Category 3	30	30
Category 3	90	20
Category 3	1	1
Category 1	1	0
Category 3	45	45
Category 3	25	25
Category 3	300	300
Category 3	10	0
Category 3	1	1
Category 3	1	1
Category 3	1	1
Category 3	1	1
Category 3	1	1
Category 3	1	1
Category 3	1	1
Category 3	10	10
Category 3	1	1
Category 3	1	1
Category 3	1	1
Category 3	1	1
Category 3	1	1
Category 3	5	5
Category 3	60	60
Category 3	30	30
Category 3	30	30
Category 3	300	300
Category 3	50	50
Category 3	1	1
Category 3	40	40
Category 3	50	50
Category 3	40	40

[illegible]

[illegible]

3824 MCBRYDE AVENUE
4601 FALL AVENUE
10837 SAN PABLO AVENUE
646 20TH STREET
1612 Bissel Avenue
505 CLARENCE STREET
310 19TH STREET
HARBOUR WAY SOUTH AND WRIGHT AVENUE OVERFLOW WEIR
INTERSECTION OF 23RD STREET AND CUTTING BOULEVARD
INTERSECTION OF 33RD STREET AND LEONA STREET
INTERSECTION OF SAN PABLO AVENUE AND I-80 OVERPASS
INTERSECTION OF KEY BOULEVARD AND MACDONALD AVENUE
1601 MACDONALD AVENUE
INTERSECTIONS OF ROOSEVELT AVE AND WILSON AVENUE
2824 REGATTA BOULEVARD
1336 SOUTH 49TH
INTERSECTION OF I-80 OVERPASS AND SAN PABLO AVENUE NORTHEAST
INTERSECTION OF WILSON AVENUE AND ROOSEVELT AVENUE
LEONA AVENUE AND 33RD STREET
INTERSECTION OF I-80 OVERPASS AND SAN PABLO AVENUE SOUTHEAST
INTERSECTION OF 23RD STREET AND CUTTING BOULEVARD
INTERSECTION OF HARBOUR WAY SOUTH AND WRIGHT AVENUE
INTERSECTION OF 13TH STREET AND DUNN AVENUE
456 27TH STREET
2323 BARRETT AVENUE
161 BERK PLACE
121 SANTA FE AVENUE
2824 REGATTA BOULEVARD
SANITARY SEWER EASEMENT ON CONTRA COSTA COUNTY COURTHOUSE PROPERTY
1801 HELLINGS AVENUE
1423 HELLINGS AVENUE
441 SOUTH 17TH STREET
669 YUBA STREET
INTERSECTION OF LEONA AVENUE AND 33RD STREET
420 RIPLEY AVENUE
330 33RD STREET
1811 RHEEM AVENUE
651 11TH STREET
INTERSECTION OF MAINE AVENUE & MARINA WAY SOUTH
2108 CUTTING BOULEVARD
3625 MACDONALD AVENUE
3516 MACDONALD AVENUE
2730 MAINE AVENUE
1525 HAYES STREET
1324 MAINE AVENUE
2951 HOFFMANN BOULEVARD
2571 HINKLEY AVENUE
1700 BURBECK AVENUE
1705 BURBECK AVENUE
2343 RHEEM AVENUE
2322 MARICOPA AVENUE
818 Lucas Avenue
213 BARRETT AVENUE
KELLER BEACH PARK
2230 KEY BOULEVARD

37.95	-122.33 Contra Costa
37.92	-122.33 Contra Costa
37.91	-122.31 Contra Costa
37.94	-122.35 Contra Costa
37.93	-122.35 Contra Costa
37.93	-122.39 Contra Costa
37.94	-122.35 Contra Costa
37.92	-122.36 Contra Costa
37.93	-122.35 Contra Costa
37.93	-122.34 Contra Costa
37.94	-122.33 Contra Costa
37.93	-122.32 Contra Costa
37.94	-122.35 Contra Costa
37.94	-122.33 Contra Costa
37.91	-122.34 Contra Costa
37.91	-122.33 Contra Costa
37.94	-122.33 Contra Costa
37.94	-122.33 Contra Costa
37.93	-122.34 Contra Costa
37.94	-122.33 Contra Costa
37.93	-122.35 Contra Costa
37.92	-122.36 Contra Costa
37.95	-122.36 Contra Costa
37.94	-122.34 Contra Costa
37.94	-122.35 Contra Costa
37.92	-122.33 Contra Costa
37.93	-122.39 Contra Costa
37.91	-122.34 Contra Costa
37.93218	-122.33341 Contra Costa
37.95	-122.35 Contra Costa
37.95	-122.36 Contra Costa
37.93	-122.35 Contra Costa
37.94	-122.32 Contra Costa
37.93	-122.34 Contra Costa
37.94	-122.37 Contra Costa
37.93	-122.34 Contra Costa
37.95	-122.35 Contra Costa
37.94	-122.36 Contra Costa
37.93	-122.36 Contra Costa
37.93	-122.35 Contra Costa
37.93	-122.33 Contra Costa
37.93	-122.34 Contra Costa
37.93	-122.34 Contra Costa
37.96	-122.35 Contra Costa
37.93	-122.36 Contra Costa
37.92	-122.34 Contra Costa
37.92	-122.34 Contra Costa
37.94	-122.35 Contra Costa
37.94	-122.35 Contra Costa
37.95	-122.35 Contra Costa
37.95	-122.35 Contra Costa
37.944429	-122.361223 Contra Costa
37.94	-122.37 Contra Costa
37.921148	-122.385806 Contra Costa
37.93	-122.32 Contra Costa

[illegible]

IT IS ESTIMATED THIS OVERFLOW OCCURRED ON 1/04/08 DURING A 2 YEAR STORM EVENT. IT WAS NOT OBSERVED.
IT IS ESTIMATED THIS OVERFLOW OCCURRED ON 1/04/08 DURING A 2 YEAR STORM EVENT. IT WAS NOT OBSERVED.

AFTER AUDITING OUR SSO RECORDS, IT WAS DETERMINED THAT THESE WERE AN SSO BY THE WDR REPOF
AFTER AUDITING OUR SSO RECORDS, IT WAS DETERMINED THAT THESE WERE AN SSO BY THE WDR REPOF
AFTER AUDITING OUR SSO RECORDS, IT WAS DETERMINED THAT THESE WERE AN SSO BY THE WDR REPOF
AFTER AUDITING OUR SSO RECORDS, IT WAS DETERMINED THAT THESE WERE AN SSO BY THE WDR REPOF

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AFTER AUDITING OUR SSO RECORDS, IT WAS DETERMINED THAT THESE WERE AN SSO BY THE WDR REPOF
AFTER AUDITING OUR SSO RECORDS, IT WAS DETERMINED THAT THESE WERE AN SSO BY THE WDR REPOF
AFTER AUDITING OUR SSO RECORDS, IT WAS DETERMINED THAT THESE WERE AN SSO BY THE WDR REPOF

Residential Home
RESIDENTIAL

SERVED DISCHARGING. THE MANH
SERVED DISCHARGING. THE MANH

RTING STANDARDS.
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RTING STANDARDS.

Other (specify)
Manhole
Manhole
Manhole
Manhole
Building or structure
Manhole
Other sewer system structure
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Building or structure
Manhole
Manhole
Manhole
Manhole
Manhole
Other sewer system structure
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Other (specify)
Manhole
Manhole
Manhole
Manhole
Building or structure
Building or structure
Other (specify)
Building or structure
Manhole
Other (specify)
Building or structure
Building or structure
Building or structure
Manhole
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Manhole
Building or structure
Building or structure
Manhole
Manhole
Building or structure
Manhole
Manhole
Other (specify)

PRIVATE LATERAL OVERFLOWED DUE TO BLOCKAGE IN CITY'S SANITARY SEWER MAIN.

ENGINEERED STRUCTURE FOR THE PRESSURE RELIEF OF SEWAGE WHEN THE INFLUENT IS GREATER THAN

THE AMOUNT DISCHARGED IS UNKNOWN

-

ENGINEERED OVERFLOW WEIR

IT IS ESTIMATED THIS OVERFLOW OCCURRED ON 1/25/08 DURING A 2 YEAR STORM EVENT. IT WAS NOT OBSERVED
CRACKS IN THE CURB AND GUTTER

AFTER AUDITING OUR SSO RECORDS, IT WAS DETERMINED THAT THESE WERE AN SSO BY THE WDR REPORTED
SINKHOLE

STREET CRACKS

MH# 090335
PRIVATE LATERAL

Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Other paved surface;Street/curb and gutter
Street/curb and gutter
Building or structure
Street/curb and gutter
Surface water
Surface water
Surface water
Surface water
Surface water
Storm drain
Separate storm drain
Separate storm drain
Building or structure
Storm drain
Storm drain
Storm drain
Storm drain
Storm drain
Surface water
Storm drain
Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Separate storm drain
Other paved surface
Street/curb and gutter
Other (specify below)
Street/curb and gutter
Other paved surface
Street/curb and gutter
Building or structure
Building or structure
Street/curb and gutter
Building or structure
Unpaved surface
Street/curb and gutter
Building or structure
Building or structure
Building or structure
Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Storm drain
Building or structure
Building or structure
Street/curb and gutter
Street/curb and gutter
Building or structure
Street/curb and gutter
Other paved surface;Unpaved surface
Street/curb and gutter

SEWAGE ENTERED THE STORM DRAIN AND WAS CONTAINED AND CAPTURED IN A PUMP STATION WET WELL. IT IS ESTIMATED THIS OVERFLOW OCCURRED ON 1/04/08 DURING A 2 YEAR STORM EVENT. IT WAS NOT OBSERVED.

THE DISCHARGE WAS DUE TO A 5.7 FOOT HIGH TIDE AT 1325 PM, AND AVERAGE OF 1.52 INCHES OF RAIN WITHIN THE 24 HOUR PERIOD.

IT IS ESTIMATED THIS OVERFLOW OCCURRED ON 1/25/08 DURING A 2 YEAR STORM EVENT. IT WAS NOT OBSERVED.

CATCH BASIN

EASEMENT

BACK YARD

11/16/2007 0:00	11/16/2007 10:00	11/16/2007 10:15	11/16/2007 10:30
11/28/2007 0:00	11/28/2007 8:30	11/28/2007 8:40	11/28/2007 8:45
12/7/2007 0:00	12/7/2007 13:30	12/7/2007 13:45	12/7/2007 14:00
12/7/2007 0:00	12/7/2007 7:00	12/7/2007 7:20	12/7/2007 9:00
12/14/2007 0:00	12/14/2007 8:15	12/14/2007 8:30	12/14/2007 8:45
12/11/2007 0:00	12/11/2007 15:00	12/11/2007 15:30	12/11/2007 15:30
12/23/2007 0:00	12/23/2007 15:00	12/23/2007 15:05	12/23/2007 15:15
1/4/2008 0:00	1/4/2008 8:40	1/4/2008 8:20	1/4/2008 14:38
1/4/2008 0:00	1/4/2008 8:45	1/4/2008 8:45	1/4/2008 14:15
1/4/2008 0:00	1/4/2008 9:00	1/4/2008 9:00	1/4/2008 14:00
1/4/2008 0:00	1/4/2008 9:15	1/4/2008 9:15	1/4/2008 14:25
1/4/2008 0:00	1/4/2008 11:00	1/4/2008 11:00	1/4/2008 13:45
1/2/2008 0:00	1/2/2008 14:00	1/2/2008 14:15	1/2/2008 14:25
1/4/2008 0:00	1/9/2008 11:00	1/9/2008 11:00	1/4/2008 0:00
1/4/2008 0:00	1/10/2008 10:00	1/10/2008 10:00	1/4/2008 0:00
1/14/2008 0:00	1/14/2008 12:00	1/14/2008 12:15	1/14/2008 12:20
1/25/2008 0:00	1/25/2008 14:00	1/25/2008 14:00	1/26/2008 3:40
1/25/2008 0:00	1/25/2008 14:00	1/25/2008 14:00	1/26/2008 3:45
1/25/2008 0:00	1/25/2008 14:18	1/25/2008 14:18	1/26/2008 3:30
1/25/2008 0:00	1/25/2008 16:30	1/25/2008 16:30	1/26/2008 3:40
1/25/2008 0:00	1/25/2008 14:00	1/25/2008 14:00	1/26/2008 3:00
1/25/2008 0:00	1/25/2008 14:45	1/25/2008 14:45	1/26/2008 2:20
1/26/2008 0:00	1/26/2008 11:30	1/26/2008 11:30	1/27/2008 16:30
1/28/2008 0:00	1/28/2008 11:00	1/28/2008 11:10	1/28/2008 11:20
2/12/2008 0:00	2/12/2008 10:15	2/12/2008 10:30	2/12/2008 10:45
2/8/2008 0:00	2/8/2008 8:20	2/8/2008 8:30	2/8/2008 9:50
2/5/2008 0:00	2/5/2008 3:15	2/5/2008 3:15	2/5/2008 0:00
1/25/2008 0:00	2/8/2008 10:00	2/8/2008 10:00	1/26/2008 0:00
2/13/2008 0:00	2/13/2008 12:00	2/13/2008 12:05	2/13/2008 12:15
3/7/2008 0:00	3/7/2008 14:47	3/7/2008 18:00	3/7/2008 18:10
3/10/2008 0:00	3/10/2008 8:00	3/10/2008 8:00	3/10/2008 8:20
6/6/2007 0:00	6/6/2007 9:00	6/6/2007 9:30	6/6/2007 10:30
7/18/2007 0:00	7/18/2007 11:07	7/18/2007 15:15	7/18/2007 15:45
12/19/2007 0:00	12/19/2007 11:20	12/19/2007 11:30	12/19/2007 12:00
8/20/2007 0:00	8/20/2007 11:00	8/20/2007 11:30	8/20/2007 12:00
10/10/2007 0:00	10/10/2007 21:25	10/10/2007 22:00	10/10/2007 22:30
10/23/2007 0:00	10/23/2007 9:01	10/23/2007 9:15	10/23/2007 9:30
10/29/2007 0:00	10/29/2007 10:51	10/29/2007 11:15	10/29/2007 11:30
12/9/2007 0:00	12/9/2007 15:20	12/9/2007 15:45	12/9/2007 16:15
12/9/2007 0:00	12/9/2007 16:20	12/9/2007 16:35	12/9/2007 17:00
12/19/2007 0:00	12/19/2007 15:00	12/19/2007 15:15	12/19/2007 15:30
12/20/2007 0:00	12/20/2007 13:10	12/20/2007 13:25	12/20/2007 13:40
12/27/2007 0:00	12/27/2007 9:17	12/27/2007 9:35	12/27/2007 9:50
12/29/2007 0:00	12/29/2007 2:59	12/29/2007 3:45	12/29/2007 4:15
12/9/2007 0:00	12/9/2007 15:00	12/9/2007 15:15	12/9/2007 15:30
4/6/2008 0:00	4/6/2008 14:30	4/6/2008 15:00	4/6/2008 14:27
4/17/2008 0:00	4/17/2008 17:00	4/17/2008 17:15	4/17/2008 17:30
5/31/2008 0:00	5/31/2008 16:15	5/31/2008 17:10	5/31/2008 17:20
5/31/2008 0:00	5/31/2008 16:15	5/31/2008 17:10	5/31/2008 17:20
6/29/2008 0:00	6/29/2008 21:28	6/29/2008 10:00	6/29/2008 22:30
7/7/2008 0:00	7/8/2008 9:10	7/8/2008 9:15	7/8/2008 9:30
9/25/2008 0:00	9/25/2008 11:10	9/25/2008 11:10	9/25/2008 11:10
10/12/2008 0:00	10/12/2008 12:00	10/12/2008 12:30	10/12/2008 12:45
2/4/2009 0:00	2/4/2009 9:08	2/4/2009 9:12	2/4/2009 9:30
2/9/2009 0:00	2/9/2009 15:20	2/9/2009 16:00	2/9/2009 15:40

Grease deposition (FOG)
Grease deposition (FOG)
Root intrusion
Grease deposition (FOG)
Grease deposition (FOG)
Root intrusion
Grease deposition (FOG)
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Grease deposition (FOG)
Flow exceeded capacity (Seperate CS Only)
Flow exceeded capacity (Seperate CS Only)
Other (specify below)
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Root intrusion
Grease deposition (FOG)
Grease deposition (FOG)
Root intrusion
Flow exceeded capacity (Seperate CS Only)
Other (specify below)
Debris
Debris
Grease deposition (FOG)
Root intrusion
Debri-General
Other (specify below)
Other (specify below)
Pipe structural problem/failure
Other (specify below)
Pipe structural problem/failure
Pipe structural problem/failure
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Debris
Other (specify below)
Debris
Debris
Grease deposition (FOG)
Pipe structural problem/failure
Grease deposition (FOG)
Debris
Debri-General
Debri-General

NEAR RESIDENTIAL AREA
Residential area.

SEWAGE BACKED UP INTO RESIDENCE DUE TO ROOT BLOCKAGE IN CITY'S MAIN. EVENT WAS OVER WHEN

IT IS ESTIMATED THIS OVERFLOW OCCURRED ON 1/04/08 DURING A 2 YEAR STORM EVENT. IT WAS NOT OBSERVED:
SHOP TOWELS

THE DISCHARGE WAS DUE TO A 5.7 FOOT HIGH TIDE AT 1325 PM, AND AVERAGE OF 1.52 INCHES OF RAIN WITHIN 24 HOURS.
THE DISCHARGE WAS DUE TO A 5.7 FOOT HIGH TIDE AT 1325 PM, AND AVERAGE OF 1.52 INCHES OF RAIN WITHIN 24 HOURS.

THE DISCHARGE WAS DUE TO A 5.7 FOOT HIGH TIDE AT 1325 PM, AND AVERAGE OF 1.52 INCHES OF RAIN WITHIN 24 HOURS.
THE DISCHARGE WAS DUE TO A 5.7 FOOT HIGH TIDE AT 1325 PM, AND AVERAGE OF 1.52 INCHES OF RAIN WITHIN 24 HOURS.

RESIDENTIAL GREASE COLLECTED ON ROOTS.

IT IS ESTIMATED THIS OVERFLOW OCCURRED ON 1/25/08 DURING A 2 YEAR STORM EVENT. IT WAS NOT OBSERVED:
SHOP RAGS, AND PAPER TOWELS FROM JAIL

UNKNOWN--OCCURRED WHILE CLEANING MAIN LINE.
UNKNOWN

UNKNOWN

UNKNOWN BLOCKAGE
UNKNOWN
UNKNOWN
UNKNOWN SOFT BLOCKAGE
UNKNOWN BLOCKAGE

UNKNOWN
PRIVATE LATERAL CONNECTION CAUSES DEBRIS TO COLLECT BY RESTRICTING FLOW IN THE MAIN.
PRIVATE LATERAL CONNECTION CAUSES DEBRIS TO COLLECT BY RESTRICTING FLOW IN THE MAIN.
RESIDENTIAL AREA

CITY'S MAIN WAS BLOCKED CAUSING BACKUP AND DISCHARGE FROM PRIVATE LATERAL

CREW ARRIVED.

Main

Main

THIN 24 HOURS. ALL CONTRIBUTING TO IN
THIN 24 HOURS. ALL CONTRIBUTING TO IN

THIN 24 HOURS. ALL CONTRIBUTING TO IN
THIN 24 HOURS. ALL CONTRIBUTING TO IN

Main

Main

Main

Main

Main

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Main

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Main

Main

Main

Main

Main

IFILTRATION AND INFLOW INTO THE SANITARY SEWER COLLECTION SYSTEM. THE POTW WAS BLENDING PF
IFILTRATION AND INFLOW INTO THE SANITARY SEWER COLLECTION SYSTEM. THE POTW WAS BLENDING PF

IFILTRATION AND INFLOW INTO THE SANITARY SEWER COLLECTION SYSTEM. THE POTW WAS BLENDING PF
IFILTRATION AND INFLOW INTO THE SANITARY SEWER COLLECTION SYSTEM. THE POTW WAS BLENDING PF

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RIOR TO THIS EVENT THE
RIOR TO THIS EVENT THE

OBSERVED DISCHARGE. DISCHARGE TIMES AND AMOUNT IS ELECTRONICALLY RECORDED.
OBSERVED DISCHARGE
OBSERVED DISCHARGE
OBSERVED DISCHARGE
OBSERVED DISCHARGE

REPORTED DISCHARGE TO CIWQS
REPORTED TO CIWQS

MONITORED DISCHARGE
MONITORED DISCHARGE
MONITORED DISCHARGE
MONITORED DISCHARGE
OBSERVED DISCHARGE
OBSERVED DISCHARGE
OBSERVED DISCHARGE

REPORTED TO CIWQS

EAST BAY REGIONAL PARKS POSTED KEEP OUT SIGNS AND COLLECTED A TOTAL COLLIFORM SAMPLE.

1/4/2008 14:38
1/4/2008 14:15
1/4/2008 14:00
1/4/2008 14:25
1/4/2008 13:45

1/9/2008 11:00
1/10/2008 11:00

1/26/2008 3:40
1/26/2008 3:45
1/26/2008 3:30
1/26/2008 3:40
1/26/2008 3:00
1/26/2008 2:20
1/27/2008 16:30

2/8/2008 0:00

Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer

Other (specify below)
Other (specify below)

Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer

Other (specify below)

ONGOING IMPROVEMENTS WITH CIP (BOND) FUNDS.
ONGOING IMPROVEMENTS WITH CIP (BOND) FUNDS.
ONGOING IMPROVEMENTS WITH CIP (BOND) FUNDS.
ONGOING IMPROVEMENTS WITH CIP (BOND) FUNDS.
ONGOING IMPROVEMENTS WITH CIP (BOND) FUNDS.

REPORTED TO CIWQS
REPORTED TO CIWQS

REPORTED TO CIWQS

No
No
No
No
Yes

No
No

No
Yes
Yes
Yes
Yes
Yes
Yes

No

THE DISCHARGE IS PRIMARILY GROUND AND STORM WATERS.
THE DISCHARGE IS PRIMARILY GROUND AND STORM WATERS.
THE DISCHARGE IS PRIMARILY GROUND AND STORM WATERS.
THE DISCHARGE IS PRIMARILY GROUND AND STORM WATERS.
THE DISCHARGE IS PRIMARILY GROUND AND STORM WATERS.

THE DISCHARGE IS PRIMARILY GROUND AND STORM WATERS.

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THE DISCHARGE IS PRIMARILY GROUND AND STORM WATERS.
THE DISCHARGE IS PRIMARILY GROUND AND STORM WATERS.

THE DISCHARGE IS PRIMARILY GROUND AND STORM WATERS.

REPORTED TO CIWQS

No
No
No
No
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No
No

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No
No

No

NA
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NA
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NA
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NA
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NA
NA
NA
NA

Unknown

SANTA FE CHANNEL
San Francisco Bay
SANTA FE CHANNEL
SANTA FE CHANNEL
SANTA FE CHANNEL

SANTA FE CHANNEL
San Francisco Bay

SAN FRANCISCO BAY
SAN FRANCISCO BAY
San Franciso Bay
SAN FRANCISCO BAY
SAN FRANCISCO BAY
SAN FRANCISCO BAY
SAN FRANCISCO BAY

San Pablo Bay

Not applicable to this spill
Not applicable to this spill
Not applicable to this spill
Not applicable to this spill
Not applicable to this spill

Not applicable to this spill
Not applicable to this spill

Not applicable to this spill
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Not applicable to this spill
Not applicable to this spill
Not applicable to this spill

Not applicable to this spill

80055	1/4/2008 9:17
80101	1/4/2008 17:02
80056	1/4/2008 9:25
80057	1/4/2008 9:35
80102	1/4/2008 17:05

80713	1/25/2008 16:45
80715	1/25/2008 16:45
80716	1/25/2008 16:45
80714	1/25/2008 16:45
80720	1/25/2008 17:30
80721	1/25/2008 17:30
80859	1/28/2008 14:30

82868	4/17/2008 18:50
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2SSO10170	Active	733997 BILL LINDSAY	Certified
2SSO10170	Active	734011 BILL LINDSAY	Certified
2SSO10170	Active	734468 BILL LINDSAY	Certified
2SSO10170	Active	734493 BILL LINDSAY	Certified
2SSO10170	Active	734629 BILL LINDSAY	Certified
2SSO10170	Active	734630 BILL LINDSAY	Certified
2SSO10170	Active	737194 Bill Lindsay	Certified
2SSO10170	Active	737804 BILL LINDSAY	Certified
2SSO10170	Active	739552 BILL LINDSAY	Certified
2SSO10170	Active	743048 BILL LINDSAY	Certified
2SSO10170	Active	743256 BILL LINDSAY	Certified
2SSO10170	Active	744322 BILL LINDSAY	Certified
2SSO10170	Active	744327 BILL LINDSAY	Certified
2SSO10170	Active	744484 BILL LINDSAY	Certified
2SSO10170	Active	744946 BILL LINDAY	Certified
2SSO10170	Active	745614 BILL LINDSAY	Certified
2SSO10170	Active	745781 BILL LINDSAY	Certified
2SSO10170	Active	745782 BILL LINDSAY	Certified
2SSO10170	Active	745977 BILL LINDSAY	Certified
2SSO10170	Active	746399 BILL LINDSAY	Certified
2SSO10170	Active	747127 BILL LINDSAY	Certified
2SSO10170	Active	747247 BILL LINDSAY	Certified
2SSO10170	Active	748234 BILL LINDSAY	Certified
2SSO10170	Active	748265 BILL LINDSAY	Certified
2SSO10170	Active	748403 BILL LINDSAY	Certified
2SSO10170	Active	748405 BILL LINDSAY	Certified
2SSO10170	Active	748415 BILL LINDSAY	Certified
2SSO10170	Active	748426 BILL LINDSAY	Certified
2SSO10170	Active	748430 BILL LINDSAY	Certified
2SSO10170	Active	748434 BILL LINDSAY	Certified
2SSO10170	Active	748439 BILL LINDSAY	Certified
2SSO10170	Active	748440 BILL LINDSAY	Certified
2SSO10170	Active	748445 BILL LINDSAY	Certified
2SSO10170	Active	748446 BILL LINDSAY	Certified
2SSO10170	Active	748448 BILL LINDSAY	Certified
2SSO10170	Active	748454 BILL LINDSAY	Certified
2SSO10170	Active	748456 BILL LINDSAY	Certified
2SSO10170	Active	748458 BILL LINDSAY	Certified
2SSO10170	Active	748473 BILL LINDSAY	Certified
2SSO10170	Active	748489 BILL LINDSAY	Certified
2SSO10170	Active	748492 BILL LINDSAY	Certified
2SSO10170	Active	748494 BILL LINDSAY	Certified
2SSO10170	Active	748496 BILL LINDSAY	Certified
2SSO10170	Active	748499 BILL LINDSAY	Certified
2SSO10170	Active	748500 BILL LINDSAY	Certified
2SSO10170	Active	748501 BILL LINDSAY	Certified
2SSO10170	Active	748684 BILL LINDSAY	Certified
2SSO10170	Active	748686 BILL LINDSAY	Certified
2SSO10170	Active	748694 BILL LINDSAY	Certified
2SSO10170	Active	748699 BILL LINDSAY	Certified
2SSO10170	Active	748705 BILL LINDSAY	Certified
2SSO10170	Active	748729 BILL LINDSAY	Certified
2SSO10170	Active	748730 BILL LINDSAY	Certified
2SSO10170	Active	748735 Bill Lindsay	Certified
2SSO10170	Active	748857 BILL LINDSAY	Certified

CITY OF RICHMOND	955733
CITY OF RICHMOND	384820
CITY OF RICHMOND	998378
CITY OF RICHMOND	468380
CITY OF RICHMOND	384709
CITY OF RICHMOND	132961
City of Richmond	743381
RICHMOND, CA	206643
RICHMOND, CA	232913
CITY OF RICHMOND	356447
CITY OF RICHMOND	167332
CITY OF RICHMOND	983159
CITY OF RICHMOND	622597
CITY OF RICHMOND	841132
CITY OF RICHMOND	912743
CITY OF RICHMOND	730594
CITY OF RICHMOND	371365
CITY OF RICHMOND	485589
CITY OF RICHMOND	167897
RICHMOND, CA	460994
RICHMOND, CA	769665
RICHMOND, CA	723400
RICHMOND, CA	198814
RICHMOND, CA	496768
CITY OF RICHMOND	167783
CITY OF RICHMOND	565994
CITY OF RICHMOND	207527
CITY OF RICHMOND	959558
CITY OF RICHMOND	125755
CITY OF RICHMOND	499675
CITY OF RICHMOND	350672
CITY OF RICHMOND	816660
CITY OF RICHMOND	539719
CITY OF RICHMOND	677546
CITY OF RICHMOND	798436
CITY OF RICHMOND	905688
CITY OF RICHMOND	129664
CITY OF RICHMOND	128018
CITY OF RICHMOND	306085
CITY OF RICHMOND	157754
CITY OF RICHMOND	988862
CITY OF RICHMOND	862886
CITY OF RICHMOND	745868
CITY OF RICHMOND	696696
CITY OF RICHMOND	834831
CITY OF RICHMOND	848694
CITY OF RICHMOND	670093
CITY OF RICHMOND	519629
CITY OF RICHMOND	358371
CITY OF RICHMOND	397020
CITY OF RICHMOND	705347
CITY OF RICHMOND	873539
CITY OF RICHMOND	683025
Richmond	769890
CITY OF RICHMOND	715967

23-Feb-09	18-Mar-09	3/18/2009
24-Feb-09	18-Mar-09	3/18/2009
2-Mar-09	18-Mar-09	3/18/2009
3-Mar-09	18-Mar-09	3/18/2009
5-Mar-09	18-Mar-09	4/28/2009
5-Mar-09	18-Mar-09	4/28/2009
6-May-09	21-May-09	5/21/2009
21-May-09	18-Aug-09	8/18/2009
18-Jun-09	18-Aug-09	8/18/2009
13-Aug-09	26-Oct-09	10/26/2009
18-Aug-09	26-Oct-09	10/26/2009
8-Sep-09	26-Oct-09	10/26/2009
8-Sep-09	26-Oct-09	10/26/2009
9-Sep-09	26-Oct-09	10/26/2009
22-Sep-09	26-Oct-09	10/26/2009
14-Oct-09	26-Oct-09	10/26/2009
19-Oct-09	26-Oct-09	10/26/2009
19-Oct-09	26-Oct-09	10/26/2009
22-Oct-09	26-Oct-09	10/26/2009
30-Oct-09	28-Jan-10	1/28/2010
25-Nov-09	28-Jan-10	1/28/2010
1-Dec-09	28-Jan-10	1/28/2010
7-Jan-10	28-Jan-10	1/28/2010
11-Jan-10	28-Jan-10	1/28/2010
19-Jan-10	8-Feb-10	2/8/2010
19-Jan-10	8-Feb-10	2/8/2010
19-Jan-10	8-Feb-10	2/8/2010
19-Jan-10	8-Feb-10	2/8/2010
19-Jan-10	8-Feb-10	2/8/2010
19-Jan-10	8-Feb-10	2/8/2010
19-Jan-10	8-Feb-10	2/8/2010
19-Jan-10	8-Feb-10	2/8/2010
19-Jan-10	8-Feb-10	2/8/2010
20-Jan-10	8-Feb-10	2/8/2010
20-Jan-10	8-Feb-10	2/8/2010
20-Jan-10	8-Feb-10	2/8/2010
20-Jan-10	8-Feb-10	2/8/2010
20-Jan-10	8-Feb-10	2/8/2010
20-Jan-10	8-Feb-10	2/8/2010
20-Jan-10	8-Feb-10	2/8/2010
20-Jan-10	8-Feb-10	2/8/2010
20-Jan-10	8-Feb-10	2/8/2010
20-Jan-10	8-Feb-10	2/8/2010
20-Jan-10	8-Feb-10	2/8/2010
20-Jan-10	8-Feb-10	2/8/2010
22-Jan-10	8-Feb-10	2/8/2010
22-Jan-10	8-Feb-10	2/8/2010
22-Jan-10	8-Feb-10	2/8/2010
22-Jan-10	8-Feb-10	2/8/2010
22-Jan-10	8-Feb-10	2/8/2010
22-Jan-10	8-Feb-10	2/8/2010
23-Jan-10	2-Dec-10	12/2/2010
26-Jan-10	8-Feb-10	2/8/2010

Category 1	890000	0
Category 1	12360	0
Category 3	45	45
Category 3	40	40
Category 1	215075	0
Category 1	20250	0
Category 3	300	300
Category 3	10	10
Category 3	10	0
Category 3	150	150
Category 3	100	100
Category 3	50	50
Category 3	100	100
Category 3	500	500
Category 3	5	5
Category 1	1007715	0
Category 1	420	0
Category 1	200	0
Category 3	5	5
Category 3	50	50
Category 3	50	50
Category 3	75	75
Category 3	5	0
Category 3	100	100
Category 1	3952443	0
Category 1	880352	0
Category 1	1643613	0
Category 1	230843	0
Category 1	32600	0
Category 1	73125	0
Category 1	34500	0
Category 1	28000	0
Category 1	6000	0
Category 1	4500	0
Category 1	3000	0
Category 1	3533213	0
Category 1	28000	0
Category 1	554791	0
Category 1	13425	0
Category 1	14925	0
Category 1	61800	0
Category 1	44100	0
Category 1	69600	0
Category 1	68100	0
Category 1	43350	0
Category 3	200	200
Category 1	869447	0
Category 1	1650	0
Category 1	4650	0
Category 1	6150	0
Category 1	4950	0
Category 1	6450	0
Category 1	4950	0
Category 1	8000	8000
Category 2	2000	2000

890000	Yes	Yes
12360	Yes	Yes
0	No	No
0	No	No
215075	Yes	Yes
20250	Yes	Yes
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
0	No	Yes
0	No	No
1007715	Yes	Yes
420	Yes	Yes
200	Yes	Yes
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
0	No	Yes
3952443	Yes	Yes
880352	Yes	Yes
1643613	Yes	Yes
230843	Yes	Yes
32600	Yes	Yes
73125	Yes	Yes
34500	Yes	Yes
28000	Yes	Yes
6000	Yes	Yes
4500	Yes	Yes
3000	Yes	Yes
3533213	Yes	Yes
28000	Yes	Yes
554791	Yes	Yes
13425	Yes	Yes
14925	Yes	Yes
61800	Yes	Yes
44100	Yes	Yes
69600	Yes	Yes
68100	Yes	Yes
43350	Yes	Yes
0	No	No
869447	Yes	Yes
1650	Yes	Yes
4650	Yes	Yes
6150	Yes	Yes
4950	Yes	Yes
6450	Yes	Yes
4950	Yes	Yes
1	Yes	Yes
0	No	No

No
No
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Yes
Yes
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Yes
Not Applicable - Spill did not reach storm drainpipe
No
No
No
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Yes
No
No
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No
No
No
No
No
No
No
No
Yes
No
No
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No
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No
No
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No
No
Not Applicable - Spill did not reach storm drainpipe
No
No
No
No
No
No
No
No
No
Not Applicable - Spill did not reach storm drainpipe

738 HARBOUR WAY SOUTH
12380 SAN PABLO AVENUE
1401 RIFLE RANGE ROAD
4920 MCBRYDE AVENUE
738 HARBOUR WAY SOUTH
2824 REGATTA BOULEVARD
4126 ROSEWOOD AVENUE
3321 Cutting Boulevard
9 WESTERN DRIVE
228 - 230 21ST STREET
425 S. 35TH STREET
306 WEST CHANSLOR
1613 BISSELL AVENUE
13TH STREET & PENNSYLVANIA
601 MARINE STREET
738 HARBOUR WAY SOUTH
INTERSECTION OF SAN PABLO AVENUE & NEVIN AVENUE
738 HARBOUR WAY SOUTH
2015 MACDONALD AVENUE
Intersection of Rheem Avenue & 23rd Street
2322 MARICOPA AVENUE
636 GOLDEN GATE AVENUE (MH 090076)
353 7TH STREET
223 25TH STREET
738 Harbour Way S & Wright Avenue Overflow Weir
Boatrap Road & W. Cutting Boulevard Overflow Weir
738 HARBOUR WAY SOUTH & WRIGHT AVENUE OVERFLOW WEIR
BOAT RAMP ROAD & W. CUTTING BOULEVARD OVERFLOW WEIR
SAN PABLO AVENUE & ROOSEVELT AVENUE (MH 010190)
SAN PABLO AVENUE AND I-80 OVERPASS (MH # 010186)
3200 REGATTA BOULEVARD (MH #120155)
SAN PABLO AVENUE & I-80 ON RAMP NEAR SIDEWALK (MH #010185)
SAN PABLO AVENUE & NEVIN AVENUE (MH 010297)
DIMM STREET & BARRETT AVENUE (MH #010259)
BARRETT AVENUE & 44TH STREET (MH #030269)
738 Harbour Way S & Wright Avenue Overflow Weir
614 WILSON AVENUE AND 44TH STREET (MH #030266)
Boatrap Road & Cutting Boulevard Overflow Weir
3200 REGATTA BOULEVARD (MH # 120155)
321 CANAL BOULEVARD (MH #100020)
SAN PABLO AVENUE & NEVIN AVENUE/EAST SIDE (MH #010300)
SAN PABLO AVENUE & NEVIN AVENUE/WEST SIDE (MH #010297)
SAN PABLO AVENUE & ROOSEVELT AVENUE (MH #010090)
SAN PABLO AVENUE & I-80 OVER PASS (MH# 010186)
614 WILSON AVENUE & 44TH STREET (MH #030266)
199 PARK PLACE
738 HARBOUR WAY SOUTH & WRIGHT AVENUE OVERFLOW WEIR
3200 REGATTA BOULEVARD (MH #120155)
SAN PABLO AVENUE & NEVIN AVENUE/EAST SIDE (MH # 010300)
SAN PABLO AVENUE & NEVIN AVENUE/WEST SIDE (MH #010297)
SAN PABLO AVENUE & ROOSEVELT AVENUE (MH #010190)
SAN PABLO AVENUE & I-80 OVERPASS (MH #010186)
614 WILSON AVENUE & 44TH STREET (MH #030266)
Richmond Wastewater Treatment Plant
SAN PABLO AVENUE & NEVIN AVENUE

37.92	-122.36 Contra Costa
37.94	-122.33 Contra Costa
37.93	-122.3 Contra Costa
37.95	-122.33 Contra Costa
37.92	-122.36 Contra Costa
37.914892	-122.341749 Contra Costa
37.92	-122.33 Contra Costa
37.93	-122.34 Contra Costa
37.921297	-122.386735 Contra Costa
37.93472	-122.349131 Contra Costa
37.925903	-122.336454 Contra Costa
37.932831	-122.373852 Contra Costa
37.934095	-122.356972 Contra Costa
37.942438	-122.359736 Contra Costa
37.92808	-122.39424 Contra Costa
37.92135	-122.36005 Contra Costa
37.93363	-122.32415 Contra Costa
37.921351	-122.360055 Contra Costa
37.935975	-122.350172 Contra Costa
37.94984	-122.3474 Contra Costa
37.95061	-122.3399 Contra Costa
37.9293	-122.39244 Contra Costa
37.9268	-122.36303 Contra Costa
37.93444	-122.3459 Contra Costa
37.92167	-122.35983 Contra Costa
37.925124	-122.373533 Contra Costa
37.92167	-122.35983 Contra Costa
37.92185	-122.35043 Contra Costa
37.93699	-122.3258 Contra Costa
37.93733	-122.32607 Contra Costa
37.91652	-122.34018 Contra Costa
37.93733	-122.32607 Contra Costa
37.93363	-122.32415 Contra Costa
37.93585	-122.32227 Contra Costa
37.93566	-122.32762 Contra Costa
37.92108	-122.35992 Contra Costa
37.93765	-122.32688 Contra Costa
37.92518	-122.3668 Contra Costa
37.91652	-122.34018 Contra Costa
37.92534	-122.36646 Contra Costa
37.93362	-122.32432 Contra Costa
37.93364	-122.32415 Contra Costa
37.93699	-122.3258 Contra Costa
37.93733	-122.32607 Contra Costa
37.93765	-122.32688 Contra Costa
37.92572	-122.38498 Contra Costa
37.92167	-122.35983 Contra Costa
37.91652	-122.34018 Contra Costa
37.93363	-122.32415 Contra Costa
37.93361	-122.32429 Contra Costa
37.93699	-122.3258 Contra Costa
37.93753	-122.32607 Contra Costa
37.93765	-122.32688 Contra Costa
37.91976	-122.37899 Contra Costa
37.93363	-122.32415 Contra Costa

[illegible]

DUE TO A HIGH VOLUME OF RAIN IN A SHORT PERIOD OF TIME (4.35 INCHES IN 24 HOURS) THE COLLECTION

The engineered overflow structure for this portion of the collection system discharged due to infiltration and inflow exceed
The engineered overflow structure for this portion of the collection system discharged due to infiltration and inflow exceed

OLD BOAT RAMP

The engineered overflow structure for this portion of the collection system discharged due to infiltration and inflow exceed
Engineered overflow weir.

Richmond Wastewater Treatment Plant

SYSTEM WAS SURCHARGED WITH

ling the capacity of the collection system
ling the capacity of the collection system

ling the capacity of the collection system

Other sewer system structure
Manhole
Manhole
Manhole
Other sewer system structure
Manhole
Other (specify)
Building or structure
Manhole
Building or structure
Other sewer system structure
Manhole
Manhole
Gravity sewer
Manhole
Other sewer system structure
Manhole
Other sewer system structure
Building or structure
Manhole
Manhole
Manhole
Other sewer system structure
Manhole
Other sewer system structure
Gravity sewer
Other sewer system structure
Other sewer system structure
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Other sewer system structure
Manhole
Other sewer system structure
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Building or structure
Other sewer system structure
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Pump station
Other (specify)

ENGINEERED OVERFLOW STRUCTURE

ENGINEERED OVERFLOW WEIR

PLUMBING UNDER HOUSE

THROUGH CRACKS IN SIDEWALK. MAY HAVE COME FROM PRIVATE LATERAL

ENGINEERED OVERFLOW WEIR

DUE TO A LARGE AMOUNT OF RAIN IN A SHORT PERIOD OF TIME THE SANITARY SEWER COLLECTION SYSTE

PIPE SEGMENT 040067-040066

Engineered overflow weir

ENGINEERED OVERFLOW WEIR

ENGINEERED OVERFLOW WEIR

MH #010190

MH # 010186

MH #120155

MH #010185

MH #010259

MH #010259

The engineered overflow structure for the collection system (overflow weir).

MH #03026

Engineered overflow weir.

MH #120155

MH #100020

MH # 010300

MH #010297

MH #010090

MH# 010186

MH #030266

ENGINEERED OVERFLOW WEIR

MH #120155

MH #010300

MH #010297

MH #010190

MH #010186

MH # 030266

Submersible Pump at Treatment Plant

PRIVATE LATERAL CLEANOUT

Storm drain;Surface water
Storm drain;Street/curb and gutter;Surface water
Other paved surface;Street/curb and gutter
Other paved surface;Street/curb and gutter
Storm drain;Surface water
Storm drain;Unpaved surface
Building or structure
Building or structure
Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Surface water
Storm drain
Surface water
Building or structure
Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Other paved surface
Storm drain;Street/curb and gutter
Surface water
Surface water
Storm drain;Street/curb and gutter;Surface water
Storm drain;Street/curb and gutter;Surface water
Storm drain;Street/curb and gutter;Surface water
Storm drain;Street/curb and gutter;Surface water
Storm drain;Surface water
Storm drain;Street/curb and gutter;Surface water
Storm drain;Street/curb and gutter;Surface water
Storm drain;Street/curb and gutter;Surface water
Storm drain;Street/curb and gutter;Surface water
Surface water
Storm drain;Street/curb and gutter;Surface water
Surface water
Storm drain;Street/curb and gutter;Surface water
Storm drain;Street/curb and gutter;Surface water
Storm drain;Street/curb and gutter;Surface water
Storm drain;Street/curb and gutter;Surface water
Storm drain;Street/curb and gutter;Surface water
Storm drain;Street/curb and gutter;Surface water
Storm drain;Street/curb and gutter;Surface water
Storm drain;Street/curb and gutter;Surface water
Building or structure
Surface water
Storm drain;Street/curb and gutter;Surface water
Street/curb and gutter;Surface water
Storm drain;Street/curb and gutter;Surface water
Storm drain;Street/curb and gutter;Surface water
Storm drain;Street/curb and gutter;Surface water
Storm drain;Street/curb and gutter;Surface water
Surface water
Street/curb and gutter

OVERFLOW FROM THE ENGINEERED DISCHARGE WEIR IS CONVEYED TO A STORM DRAIN THAT DISCHARGE
THIS MAY ONLY BE A POTENTIAL SPILL. IT HAS NOT BEEN DETERMINED IF THIS WAS NOISE OR AN ACTUAL I

Santa Fe Channel
Spill discharged at overflow weir into Santa Fe Channel

Santa Fe Channel (no public access at spill location)

Santa Fe Channel

2/22/2009 0:00	2/22/2009 13:06	2/22/2009 16:30	2/23/2009 2:00
2/22/2009 0:00	2/22/2009 22:30	2/22/2009 23:00	2/23/2009 1:30
2/28/2009 0:00	2/28/2009 10:30	2/28/2009 11:00	2/28/2009 11:05
3/2/2009 0:00	3/2/2009 13:45	3/2/2009 13:45	3/2/2009 13:55
3/5/2009 0:00	3/5/2009 4:20	3/5/2009 5:10	3/5/2009 8:34
3/5/2009 0:00	3/5/2009 5:30	3/5/2009 6:05	3/5/2009 9:15
5/5/2009 0:00	5/5/2009 10:30	5/5/2009 11:00	5/5/2009 11:45
5/18/2009 0:00	5/18/2009 14:15	5/18/2009 14:30	5/18/2009 14:45
6/13/2009 0:00	6/13/2009 15:00	6/13/2009 15:30	6/13/2009 16:30
8/8/2009 0:00	8/8/2009 10:30	8/8/2009 10:45	8/8/2009 11:00
8/13/2009 0:00	8/13/2009 13:32	8/13/2009 13:45	8/13/2009 14:00
9/1/2009 0:00	9/1/2009 11:30	9/1/2009 11:50	9/1/2009 12:00
9/6/2009 0:00	9/6/2009 13:20	9/6/2009 15:00	9/6/2009 15:15
9/9/2009 0:00	9/9/2009 10:47	9/9/2009 11:00	9/9/2009 12:00
9/21/2009 0:00	9/21/2009 20:17	9/21/2009 20:50	9/21/2009 21:15
10/13/2009 0:00	10/13/2009 12:30	10/13/2009 0:00	10/13/2009 18:34
10/19/2009 0:00	10/19/2009 16:00	10/19/2009 16:10	10/19/2009 17:00
10/19/2009 0:00	10/19/2009 16:00	10/19/2009 16:10	10/19/2009 16:10
10/20/2009 0:00	10/21/2009 14:15	10/21/2009 14:30	10/21/2009 14:45
10/29/2009 0:00	10/29/2009 18:30	10/29/2009 19:25	10/29/2009 19:50
11/24/2009 0:00	11/24/2009 13:30	11/24/2009 13:45	11/24/2009 14:00
11/29/2009 0:00	11/29/2009 10:40	11/29/2009 11:10	11/29/2009 11:30
1/5/2010 0:00	1/5/2010 11:20	1/5/2010 11:30	1/5/2010 11:40
1/10/2010 0:00	1/10/2010 14:50	1/10/2010 15:00	1/10/2010 15:10
1/19/2010 0:00	1/19/2010 6:00	1/19/2010 6:15	1/19/2010 22:00
1/19/2010 0:00	1/19/2010 6:30	1/19/2010 6:35	1/19/2010 17:00
1/18/2010 0:00	1/18/2010 10:40	1/18/2010 11:00	1/18/2010 20:00
1/18/2010 0:00	1/18/2010 10:44	1/18/2010 11:00	1/18/2010 20:00
1/19/2010 0:00	1/19/2010 8:05	1/19/2010 8:20	1/19/2010 13:30
1/19/2010 0:00	1/19/2010 8:05	1/19/2010 8:25	1/19/2010 13:30
1/19/2010 0:00	1/19/2010 8:15	1/19/2010 8:15	1/19/2010 14:00
1/19/2010 0:00	1/19/2010 8:40	1/19/2010 0:40	1/19/2010 13:30
1/18/2010 0:00	1/18/2010 13:30	1/18/2010 14:45	1/18/2010 14:30
1/18/2010 0:00	1/18/2010 13:40	1/18/2010 14:00	1/18/2010 14:40
1/18/2010 0:00	1/18/2010 13:40	1/18/2010 14:00	1/18/2010 14:40
1/20/2010 0:00	1/20/2010 6:25	1/20/2010 6:30	1/20/2010 19:00
1/19/2010 0:00	1/19/2010 8:40	1/19/2010 8:40	1/19/2010 13:30
1/20/2010 0:00	1/20/2010 6:25	1/20/2010 6:30	1/20/2010 14:00
1/20/2010 0:00	1/20/2010 7:45	1/20/2010 7:45	1/20/2010 16:00
1/20/2010 0:00	1/20/2010 7:45	1/20/2010 7:45	1/20/2010 16:30
1/20/2010 0:00	1/20/2010 8:00	1/20/2010 8:00	1/20/2010 18:00
1/20/2010 0:00	1/20/2010 8:00	1/20/2010 8:00	1/20/2010 18:00
1/20/2010 0:00	1/20/2010 8:00	1/20/2010 8:00	1/20/2010 17:00
1/20/2010 0:00	1/20/2010 8:00	1/20/2010 8:00	1/20/2010 16:30
1/20/2010 0:00	1/20/2010 8:00	1/20/2010 8:00	1/20/2010 16:30
1/20/2010 0:00	1/20/2010 13:45	1/20/2010 14:00	1/20/2010 14:00
1/21/2010 0:00	1/21/2010 14:00	1/21/2010 14:00	1/21/2010 22:00
1/21/2010 0:00	1/21/2010 14:30	1/21/2010 14:30	1/21/2010 15:30
1/21/2010 0:00	1/21/2010 14:30	1/21/2010 14:30	1/21/2010 17:00
1/21/2010 0:00	1/21/2010 13:30	1/21/2010 14:30	1/21/2010 17:00
1/21/2010 0:00	1/21/2010 14:30	1/21/2010 14:30	1/21/2010 16:00
1/21/2010 0:00	1/21/2010 14:30	1/21/2010 14:30	1/21/2010 16:00
1/21/2010 0:00	1/21/2010 14:30	1/21/2010 14:30	1/21/2010 16:00
1/23/2010 0:00	1/23/2010 19:35	1/23/2010 19:35	1/23/2010 20:50
1/26/2010 0:00	1/26/2010 14:00	1/26/2010 14:00	1/26/2010 15:00

THE SSO OCCURRED IN A RESIDENTIAL AREA.

DUE TO A LARGE AMOUNT OF RAIN IN A SHORT PERIOD OF TIME THE SANITARY SEWER COLLECTION SYSTE

THE CITY'S SEWER CREW REMOVED A BALL OF RAGS FROM THE SEWER MAIN.

The engineered overflow structure for this portion of the collection system discharged due to infiltration and inflow exceed

The engineered overflow structure for this portion of the collection system discharged due to infiltration and inflow exceed

The collection system manhole (# 010190) servicing this area of the City overflowed from a large amount of rainfall in a s

The collection system manhole (# 010186) servicing this area of the City overflowed from a large amount of rainfall in a s

The collection system manhole (# 120155) servicing this area of the City overflowed from a large amount of rainfall in a s

The collection system manhole (# 010185) servicing this area of the City overflowed from a large amount of rainfall in a s

The collection system manhole (# 010297) servicing this area of the City overflowed from a large amount of rainfall in a s

The collection system manhole (# 010259) servicing this area of the City overflowed from a large amount of rainfall in a s

The collection system manhole (# 030269) servicing this area of the City overflowed from a large amount of rainfall in a s

Excessive rainfall and Inflow & Infiltration caused the system to become hydraulically overloaded.

The collection system manhole (# 030266) servicing this area of the City overflowed from a large amount of rainfall in a s

Excessive rainfall and Inflow & Infiltration caused the system to become hydraulically overloaded.

The collection system manhole (#120155) servicing this area of the City overflowed from a large amount of rainfall in a sl

The collection system manhole (# 100020) servicing this area of the City overflowed from a large amount of rainfall in a s

The collection system manhole (# 010300) servicing this area of the City overflowed from a large amount of rainfall in a s

The collection system manhole (#010297) servicing this area of the City overflowed from a large amount of rainfall in a sl

The collection system manhole (#010190) servicing this area of the City overflowed from a large amount of rainfall in a sl

The collection system manhole (#010186) servicing this area of the City overflowed from a large amount of rainfall in a sl

The collection system manhole (#030266) servicing this area of the City overflowed from a large amount of rainfall in a sl

The collection system servicing this area of the City overflowed from a large amount of rainfall in a short period of time, a

The engineered overflow structure for this portion of the collection system discharged due to infiltration and inflow exceed

The collection system manhole (#120155) servicing this area of the City overflowed from a large amount of rainfall in a sl

The collection system manhole (#010300) servicing this area of the City overflowed from a large amount of rainfall in a sl

The collection system manhole (#010297) servicing this area of the City overflowed from a large amount of rainfall in a sl

The collection system manhole (#010190) servicing this area of the City overflowed from a large amount of rainfall in a sl

The collection system manhole (#010186) servicing this area of the City overflowed from a large amount of rainfall in a sl

The collection system manhole (#030266) servicing this area of the City overflowed from a large amount of rainfall in a sl

Mechanical Failure

The collection system manhole (#010297) servicing this area of the City overflowed from a large amount of rainfall in a sl

Main
Main

Main

Other (specify below)

sumbersible pump @ treatment plant

42
12

36

OBSERVED AND MONITORED DISCHARGE
OBSERVED DISCHARGE

CITY'S CONTRACT SEWER CREW WAS ON SCENE WHEN THE SSO OCCURRED.

OBSERVED & MONITORED DISCHARGE

UNABLE TO CONTAIN

CITY CREW REMOVED SEWAGE AND DISINFECTED CRAWL SPACE UNDER THE HOUSE. IPP DISTRIBUTED 16 City's Industrial Pretreatment Program will distribute door hangers/ plate scrapers on upstream users notifying them of the discharge wicking out around the rim of the manhole. All that was discharged evaporated.

MONITORED DISCHARGE--AMOUNT WAS ELECTRONICALLY RECORDED.

OBSERVED DISCHARGE

MONITORED DISCHARGE

WILL INSPECT RESCUE MISSION KITCHEN FOR FOG MANAGEMENT (UPSTREAM USER OTHER THAN RESIDENT)

Monitored discharge

Unable to abate overflow due to system being at maximum capacity

MONITORED DISCHARGE

MONITORED DISCHARGE (RECORDED ELECTRONICALLY)

MONITORED DISCHARGE

MONITORED DISCHARGE

MONITORED DISCHARGE

MONITORED DISCHARGE

MONITORED DISCHARGE

MONITORED DISCHARGE

MONITORED DISCHARGE

No clean-up activity due to excessive rain from storm event.

Planned flow study to determine location of excessive inflow and infiltration will be conducted.

No clean-up activity due to excessive rain from storm event.

No clean-up activity due to excessive rain from storm event. The discharge was monitored.

No clean-up activity due to excessive rain from storm event. Discharge was monitored.

No clean-up activity due to excessive rain from storm event. Discharge monitored.

No clean-up activity due to excessive rain from storm event. Discharge monitored.

No clean-up activity due to excessive rain from storm event. Discharge monitored.

No clean-up activity due to excessive rain from storm event.

No clean-up activity due to excessive rain from storm event.

No clean-up activity due to excessive rain from storm event.

No clean-up activity due to excessive rain from storm event.

No clean-up activity due to excessive rain from storm event.

No clean-up activity due to excessive rain from storm event.

No clean-up activity due to excessive rain from storm event.

No clean-up activity due to excessive rain from storm event.

No clean-up activity due to excessive rain from storm event.

2/23/2009 16:00
2/23/2009 1:30

3/5/2009 8:34
3/5/2009 9:15

10/19/2009 12:00
10/19/2009 18:30
10/22/2009 15:00

1/19/2010 22:00
1/21/2010 22:00
1/21/2010 22:00
1/21/2010 22:00
1/21/2010 22:00
1/19/2010 13:30
1/21/2010 22:00
1/21/2010 22:00
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1/21/2010 22:00
1/21/2010 22:00
1/21/2010 22:00
1/23/2010 22:00
1/26/2010 15:00

Other (specify below)
Plan rehabilitation or replacement of sewer

Other (specify below)
Adjusted schedule/method of preventive maintenance

Plan rehabilitation or replacement of sewer
Added sewer to preventive maintenance program;Plan rehabilitation or replacement of sewer
Adjusted schedule/method of preventive maintenance

Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Repaired sewer
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Plan rehabilitation or replacement of sewer
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)

Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)

Level indicator in overflow structure was repositioned, and staff response procedures evaluated.

ADJUST PM SCHEDULE

No corrective action taken. System is hydraulically overloaded due to excessive rainfall

Monitored discharge

Monitored discharge

Monitored discharge

Planned flow study to determine location of excessive inflow and infiltration will be conducted.

Planned flow study to determine location of excessive inflow and infiltration will be conducted.

Planned flow study to determine location of excessive inflow and infiltration will be conducted.

Planned flow study to determine location of excessive inflow and infiltration will be conducted.

Planned flow study to determine location of excessive inflow and infiltration will be conducted.

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Planned flow study to determine location of excessive inflow and infiltration will be conducted.

Planned flow study to determine location of excessive inflow and infiltration will be conducted.

Planned flow study to determine location of excessive inflow and infiltration will be conducted.

Planned flow study to determine location of excessive inflow and infiltration will be conducted.

Planned flow study to determine location of excessive inflow and infiltration will be conducted.

Investigation as to why the failure

Planned flow study to determine location of excessive inflow and infiltration will be conducted.

Yes
Yes

Yes
Yes

Yes
Yes
Yes

[illegible]

Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes

Nothing significant to report.

NOTHING SIGNIFICANT TO REPORT. NO NARRATIVE ISSUES OBSERVED.

Yes
No

Yes
Yes

Yes
Yes
Yes

No
Yes
No
No
No
No
No
No
No
No
No
No
Yes
No
Yes
No
No
No
No
No
Yes
No
No

No
No
No
No
No
No
No
Yes
No

Santa Fe Channel & Richmond Inner Harbor
SAN FRANCISCO BAY

SAN FRANCISCO BAY
SAN FRANCISCO BAY

SAN FRANCISCO BAY
SAN FRANCISCO BAY
SAN FRANCISCO BAY

San Francisco Bay
Santa Fe Channel
SANTA FE CHANNEL A TRIBUTARY OF SAN FRACISCO BAY.
SANTA FE CHANNEL A TRIBUTARY OF SAN FRANCISCO BAY
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Santa Fe Channel (San Francisco Bay)
SAN FRANCISCO BAY
Santa Fe Channel (San Francisco Bay)
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SANTA FE CHANNEL
SAN FRANCISCO BAY
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SAN FRANCISCO BAY
San Francisco Bay
na

No water quality samples taken
No water quality samples taken

Biological indicator(s) - specify below
Biological indicator(s) - specify below

No water quality samples taken
No water quality samples taken
No water quality samples taken

No water quality samples taken
No water quality samples taken
Other (specify below)
No water quality samples taken
No water quality samples taken
Other (specify below)
Other (specify below)
Other (specify below)
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No water quality samples taken
No water quality samples taken

No water quality samples taken
No water quality samples taken
Other (specify below)
No water quality samples taken
Not applicable to this spill
No water quality samples taken
No water quality samples taken
No water quality samples taken
Not applicable to this spill

BOD/TSS, AND COLIFORMS
BOD/TSS AND COLIFORMS

THIS WAS A FIRST FLUSH RAIN EVENT AND THERE ARE MANY CONTAMINANTS IN THAT ALSO CONTAIN COLI

EAST BAY REGIONAL PARKS ROUTINELY MONITORS FOR WATER QUALITY ISSUES AT KELLER BEACH AND P
EAST BAY REGIONAL PARKS ROUTINELY COLLECTS SAMPLES DURING RAIN EVENTS FOR KELLER BEACH AN
EAST BAY REGIONAL PARKS ROUTINELY SAMPLES KELLER BEACH AND POINT ISABELLE AFTER RAIN EVENT
EAST BAY REGIONAL PARKS ROUTINELY COLLECTS SAMPLES AT KELLER BEACH AND POINT ISABELLE AFTE
EAST BAY REGIONAL PARKS DISTRICT ROUTINELY COLLECTS SAMPLES AT KELLER BEACH AND POINT ISABI
EAST BAY REGIONAL PARKS DISTRICT ROUTINELY SAMPLES KELLER BEACH AND POINT ISABELLE WHEN TH
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EAST BAY REGIONAL PARKS SAMPLES KELLER BEACH AND POINT ISABELLE ROUTINELY WHEN THERE ARE :

EAST BAY REGIONAL PARKS DISTRICT ROUTINELY SAMPLES KELLER BEACH AND POINT ISABELLE WHEN TH

EAST BAY REGIONAL PARKS DISTRICT ROUTINELY SAMPLES KELLER BEACH AND POINT ISABELLE WHEN TH
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EAST BAY REGIONAL PARKS DISTRICT ROUTINELY SAMPLES KELLER BEACH AND POINT ISABELLE WHEN TH
No clean-up activity due to excessive rain from storm event.

EAST BAY REGIONAL PARKS DISTRICT ROUTINELY SAMPLES KELLER BEACH AND POINT ISABELLE WHEN TH

EAST BAY REGIONAL PARKS DISTRICT ROUTINELY SAMPLES KELLER BEACH AND POINT ISABELLE WHEN TH
EAST BAY REGIONAL PARKS DISTRICT ROUTINELY SAMPLES KELLER BEACH AND POINT ISABELLE WHEN TH

No water quality samples taken
No water quality samples taken

None of the above
None of the above

Not applicable to this spill
No water quality samples taken
No water quality samples taken

No water quality samples taken
No water quality samples taken
None of the above
None of the above
None of the above
None of the above
None of the above
None of the above
None of the above
None of the above
None of the above
No water quality samples taken
None of the above
None of the above
None of the above
None of the above
None of the above
None of the above
None of the above
None of the above
None of the above

None of the above
None of the above
County Health Agency
None of the above
None of the above
None of the above
None of the above
No water quality samples taken
Not applicable to this spill

MONITORED DISCHARGE

EAST BAY REGIONAL PARKS DISTRICT ROUTINELY SAMPLES KELLER BEACH AND POINT ISABELLE WHEN TH

CONTRA COSTA COUNTY HEALTH SERVICES

ERE IS A RAIN EVENT.

91558	2/23/2009 10:08
91541	2/22/2009 0:00

92013	3/5/2009 5:10
92014	3/5/2009 6:21

96891	10/13/2009 13:15
97086	10/19/2009 17:10
Sep-86	10/19/2009 17:10

100200	1/11/2010 10:59
100387	1/19/2010 7:22
100388	1/19/2010 7:27
100352	1/18/2010 0:00
100353	1/18/2010 11:29
100394	1/19/2010 8:47
100395	1/19/2010 8:54
100396	1/19/2010 8:56
100397	1/19/2010 8:58
100366	1/18/2010 14:56
100368	1/18/2010 15:01
100369	1/18/2010 15:03
100443	1/20/2010 6:48
100398	1/19/2010 9:01
100444	1/20/2010 6:48
100449	1/20/2010 8:53
100451	1/20/2010 8:59
100452	1/20/2010 10:00
100452	1/20/2010 9:04
100394	1/20/2010 9:09
100395	1/20/2010 9:44
100398	1/20/2010 9:12

100387	1/21/2010 15:13
100449	1/21/2010 22:00
100452	1/21/2010 15:13
100452	1/21/2010 16:40
100394	1/21/2010 15:13
100395	1/21/2010 15:13
100398	1/21/2010 15:13
100623	1/23/2010 20:50

2SSO10170	Active	749022 Bill Lindsay	Certified
2SSO10170	Active	749178 Bill Lindsay	Certified
2SSO10170	Active	750034 BILL LINDSAY	Certified
2SSO10170	Active	750035 BILL LINDSAY	Certified
2SSO10170	Active	750036 BILL LINDSAY	Certified
2SSO10170	Active	750232 BILL LINDSAY	Certified
2SSO10170	Active	752409 BILL LINDSAY	Certified
2SSO10170	Active	752411 BILL LINDSAY	Certified
2SSO10170	Active	752636 BILL LINDSAY	Certified
2SSO10170	Active	752858 BILL LINDSAY	Certified
2SSO10170	Active	756698 Bill Lindsay	Certified
2SSO10170	Active	757220 Bill Lindsay	Certified
2SSO10170	Active	757947 Bill Lindsay	Certified
2SSO10170	Active	758179 BILL LINDSAY	Certified
2SSO10170	Active	758181 Bill Lindsay	Certified
2SSO10170	Active	758925 Bill Lindsay	Certified
2SSO10170	Active	759104 Bill Lindsay	Certified
2SSO10170	Active	759542 Bill Lindsay	Certified
2SSO10170	Active	759544 Bill Lindsay	Certified
2SSO10170	Active	759639 Bill Lindsay	Certified
2SSO10170	Active	759960 Bill Lindsay	Certified
2SSO10170	Active	759967 Bill Lindsay	Certified
2SSO10170	Active	760186 Bill Lindsay	Certified
2SSO10170	Active	761347 Bill Lindsay	Certified
2SSO10170	Active	762519 Bill Lindsay	Certified
2SSO10170	Active	762893 Bill Lindsay	Certified
2SSO10170	Active	763246 Bill Lindsay	Certified
2SSO10170	Active	763250 Bill Lindsay	Certified
2SSO10170	Active	763251 Bill Lindsay	Certified
2SSO10170	Active	763252 Bill Lindsay	Certified
2SSO10170	Active	763254 Bill Lindsay	Certified
2SSO10170	Active	763331 Bill Lindsay	Certified
2SSO10170	Active	763333 Bill Lindsay	Certified
2SSO10170	Active	763687 Bill Lindsay	Certified
2SSO10170	Active	763688 Bill Lindsay	Certified
2SSO10170	Active	764061 Bill Lindsay	Certified
2SSO10170	Active	764491 Bill Lindsay	Certified
2SSO10170	Active	764493 Bill Lindsay	Certified
2SSO10170	Active	764495 Bill Lindsay	Certified
2SSO10170	Active	764497 Bill Lindsay	Certified
2SSO10170	Active	764501 Bill Lindsay	Certified
2SSO10170	Active	764505 Bill Lindsay	Certified
2SSO10170	Active	764506 Bill Lindsay	Certified
2SSO10170	Active	764507 Bill Lindsay	Certified
2SSO10170	Active	764665 Bill Lindsay	Certified
2SSO10170	Active	764753 Bill Lindsay	Certified
2SSO10170	Active	764757 Bill Lindsay	Certified
2SSO10170	Active	764758 Bill Lindsay	Certified
2SSO10170	Active	764759 Bill Lindsay	Certified
2SSO10170	Active	764760 Bill Lindsay	Certified
2SSO10170	Active	764792 Bill Lindsay	Certified
2SSO10170	Active	764836 Bill Lindsay	Certified
2SSO10170	Active	764837 Bill Lindsay	Certified
2SSO10170	Active	764838 Bill Lindsay	Certified
2SSO10170	Active	764839 Bill Lindsay	Certified

[illegible]

Richmond, CA	643861
Richmond, CA	592802
CITY OF RICHMOND	687281
CITY OF RICHMOND	288787
CITY OF RICHMOND	967349
CITY OF RICHMOND	415325
CITY OF RICHMOND	246778
CITY OF RICHMOND	133681
CITY OF RICHMOND	915841
CITY OF RICHMOND	598451
City of Richmond	289082
City of Richmond	572052
Richmond, CA	666389
CITY OF RICHMOND	148398
Richmond, CA	257769
Richmond, CA	351565
Richmond, CA	761332
Richmond, CA	876767
Richmond, CA	559554
Richmond, CA	160848
Richmond, CA	360094
Richmond, CA	609593
City Hall	150539
City Hall	890799
City Hall	600823
City Hall	279451
City Hall	970790
City Hall	633243
City Hall	482657
City Hall	333702
City Hall	776405
City Hall	655240
Employee	948258
City Hall	208516
City Hall	314777
City Hall	117049
City Hall	314963
City Hall	407495
City Hall	552335
City Hall	590618
City Hall	656082
City Hall	999364
City Hall	168238
City Hall	800711
City Hall	245908
City Hall	807774
City Hall	812541
City Hall	573584
City Hall	894740
City Hall	872217
City Hall	802009
City Hall	533794
City Hall	872570
Richmond, CA	537070
City Hall	835319

1-Feb-10		8-Feb-10	12/2/2010
8-Feb-10		18-Feb-10	12/2/2010
3-Mar-10		22-Apr-10	4/22/2010
3-Mar-10		22-Apr-10	4/22/2010
3-Mar-10		22-Apr-10	4/22/2010
9-Mar-10		22-Apr-10	4/22/2010
14-May-10	5/14/2010	9-Jul-10	7/9/2010
14-May-10	5/14/2010	9-Jul-10	7/9/2010
24-May-10	5/24/2010	9-Jul-10	7/9/2010
2-Jun-10	6/2/2010	16-Jul-10	7/16/2010
12-Sep-10	9/28/2010	27-Oct-10	10/27/2010
28-Sep-10	9/28/2010	27-Oct-10	10/27/2010
19-Oct-10	10/19/2010	27-Oct-10	2/22/2011
27-Oct-10	10/27/2010	2-Dec-10	12/2/2010
27-Oct-10	10/27/2010	22-Feb-11	2/22/2011
29-Nov-10	11/29/2010	22-Feb-11	2/22/2011
4-Dec-10	12/4/2010	3-Mar-11	3/3/2011
19-Dec-10	12/19/2010	3-Mar-11	3/3/2011
19-Dec-10	12/19/2010	3-Mar-11	3/3/2011
21-Dec-10	12/21/2010	3-Mar-11	3/3/2011
28-Dec-10	12/28/2010	3-Mar-11	3/3/2011
29-Dec-10	12/29/2010	3-Mar-11	3/3/2011
4-Jan-11	1/4/2011	21-Jul-11	7/21/2011
17-Jan-11	1/17/2011	21-Jul-11	7/21/2011
7-Feb-11	2/7/2011	21-Jul-11	7/21/2011
13-Feb-11	2/13/2011	21-Jul-11	7/21/2011
17-Feb-11	2/17/2011	21-Jul-11	7/21/2011
17-Feb-11	2/17/2011	21-Jul-11	7/21/2011
17-Feb-11	2/17/2011	21-Jul-11	7/21/2011
17-Feb-11	2/17/2011	21-Jul-11	7/21/2011
17-Feb-11	2/17/2011	21-Jul-11	7/21/2011
17-Feb-11	2/17/2011	21-Jul-11	7/21/2011
18-Feb-11	2/18/2011	21-Jul-11	7/21/2011
19-Feb-11	2/19/2011	21-Jul-11	7/21/2011
25-Feb-11	2/25/2011	21-Jul-11	7/21/2011
25-Feb-11	2/25/2011	21-Jul-11	7/21/2011
5-Mar-11	3/5/2011	21-Jul-11	7/21/2011
18-Mar-11	3/18/2011	21-Jul-11	7/21/2011
18-Mar-11	3/18/2011	21-Jul-11	7/21/2011
18-Mar-11	3/18/2011	21-Jul-11	7/21/2011
18-Mar-11	3/18/2011	21-Jul-11	7/21/2011
18-Mar-11	3/18/2011	21-Jul-11	7/21/2011
20-Mar-11	3/20/2011	21-Jul-11	7/21/2011
20-Mar-11	3/20/2011	21-Jul-11	7/21/2011
20-Mar-11	3/20/2011	21-Jul-11	7/21/2011
23-Mar-11	3/23/2011	21-Jul-11	7/21/2011
24-Mar-11	3/24/2011	21-Jul-11	7/21/2011
24-Mar-11	3/24/2011	21-Jul-11	7/21/2011
24-Mar-11	3/24/2011	21-Jul-11	7/21/2011
24-Mar-11	3/24/2011	21-Jul-11	7/21/2011
24-Mar-11	3/24/2011	21-Jul-11	7/21/2011
24-Mar-11	3/24/2011	21-Jul-11	7/21/2011
26-Mar-11	3/26/2011	21-Jul-11	7/21/2011
26-Mar-11	3/26/2011	21-Jul-11	7/21/2011
26-Mar-11	3/26/2011	21-Jul-11	7/27/2011
26-Mar-11	3/26/2011	21-Jul-11	7/21/2011

Category 1	120	75
Category 1	125	50
Category 1	600	0
Category 1	600	0
Category 1	1200	0
Category 3	2	2
Category 3	5	5
Category 3	40	40
Category 3	50	50
Category 3	150	150
Category 3	135	135
Category 3	100	100
Category 3	1	0
Category 3	1	1
Category 3	20	20
Category 3	10	10
Category 1	20	20
Category 1	3594793	0
Category 1	39435	0
Category 3	20	20
Category 1	3421837	0
Category 3	25	25
Category 3	200	200
Category 3	100	100
Category 3	60	60
Category 1	5	0
Category 1	1652074	0
Category 1	1500	0
Category 1	1800	0
Category 1	2100	0
Category 1	1500	0
Category 1	4842726	0
Category 1	17203	0
Category 3	250	50
Category 1	1853612	0
Category 1	1500	1250
Category 1	1300	0
Category 1	1625	0
Category 1	4213282	0
Category 2	1800	0
Category 1	24253	0
Category 1	1500	0
Category 1	1500	0
Category 1	1800	0
Category 1	500	0
Category 1	320	0
Category 1	1125	0
Category 1	1000	0
Category 1	1000	0
Category 1	25000	0
Category 3	45	45
Category 1	1886934	0
Category 1	3580	0
Category 1	8380	0
Category 1	4475	0

45 Yes	Yes
75 Yes	Yes
600 Yes	Yes
600 Yes	Yes
1200 Yes	Yes
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
1 No	Yes
3594793 Yes	Yes
39435 Yes	Yes
0 No	No
3421837 Yes	Yes
0 No	Yes
0 No	Yes
0 No	No
0 No	No
5 No	Yes
1652074 Yes	Yes
1500 Yes	Yes
1800 Yes	Yes
2100 Yes	Yes
1500 Yes	Yes
4842726 Yes	Yes
17203 Yes	Yes
0 No	Yes
1853612 Yes	Yes
250 Yes	Yes
1300 Yes	Yes
1625 Yes	Yes
4123282 Yes	Yes
0 No	Yes
24253 Yes	Yes
1500 Yes	Yes
1500 Yes	Yes
1800 Yes	Yes
500 Yes	Yes
320 Yes	Yes
1125 Yes	Yes
1000 Yes	Yes
1000 Yes	Yes
25000 Yes	Yes
0 No	Yes
1886934 Yes	Yes
3580 Yes	Yes
8380 Yes	Yes
4475 Yes	Yes

[illegible]

HUMBOLDT AVENUE & SOLANO AVENUE
20TH STREET & GRANT AVENUE (MH# 050102)
San Pablo Ave & Nevin Ave Manhole ID 010297
San Pablo Ave & Nevin Ave Manhole ID 010297
San Pablo Ave & Nevin Ave Manhole ID 010297
579 5TH STREET
2132 Dunn Avenue
Intersection of 17th Street and Virginia Avenue
MARICOPA BETWEEN 28TH STREET AND 29TH STREET
3400 MACDONALD AVENUE
2400 Roosevelt Ave
353 24th St. Richmond, CA (Mr. Pizza Man)
3007 MARICOPA AVENUE
253 3rd Street
12201 San Pablo Avenue
207 MAINE AVENUE
2400 Rheem Ave
860 Harbour Way South (Harbour Way & Wright)
Boat Ramp Road & Cutting Blvd
4126 Rosewood Ave.
860 Harbour Way South
3410 Barrett Ave
8430 Wildcat Dr.
San Pablo Ave & Nevin Ave
118 Maine St
1500 Bissell Ave
860 Harbour Way s
2300 Cutting Blvd
2824 Regatta Blvd
San Pablo Ave & Interstate 80 East Bound On-ramp
614 Wilson Ave
860 Harbour Way South
Boat Ramp Road & Cutting Blvd
Curry St & West Chanslor Ave
860 Harbour Way S
1800 Costa Ave
614 Wilson Ave
I-80 East Bound & San Pablo Ave
860 Harbour Way South
1300 Dunn Ave
100 West Cutting Blvd
2300 Cutting Blvd
614 Wilson Ave
2824 Regatta Blvd
1300 Dunn Ave
1600 Dunn Avenue
I-80 and San Pablo Ave
2824 Regatta Blvd.
614 Wilson Ave
Harbour Way & Wright Ave
2300 McBryde Ave
860 Harbour Way South
4400 Wilson Avenue
1300 Dunn Avenue
Intersection of Roosevelt Avenue & San Pablo Avenue

37.94408	-122.32504 Contra Costa
37.94139	-122.3505 Contra Costa
37.93335	-122.32443 Contra Costa
37.93335	-122.32443 Contra Costa
37.93335	-122.32443 Contra Costa
37.92712	-122.365 Contra Costa
37.94886	-122.34867 Contra Costa
37.92729	-122.35334 Contra Costa
37.95081	-122.33975 Contra Costa
37.93277	-122.3366 Contra Costa
37.93956	-122.34513 Contra Costa
37.93659	-122.34644 Contra Costa
37.95082	-122.33775 Contra Costa
37.92849	-122.36698 Contra Costa
37.93392	-122.32488 Contra Costa
37.92826	-122.36768 Contra Costa
37.94983	-122.34531 Contra Costa
37.92	-122.35946 Contra Costa
37.92521	-122.36897 Contra Costa
37.92044	-122.33079 Contra Costa
37.92	-122.35946 Contra Costa
37.9366	-122.33602 Contra Costa
37.9297	-122.29241 Contra Costa
37.93369	-122.32427 Contra Costa
37.92783	-122.36841 Contra Costa
37.93406	-122.3552 Contra Costa
37.92	-122.35946 Contra Costa
37.92506	-122.34755 Contra Costa
37.91467	-122.34168 Contra Costa
37.93672	-122.32581 Contra Costa
37.93716	-122.32724 Contra Costa
37.92	-122.35946 Contra Costa
37.92521	-122.36897 Contra Costa
37.93287	-122.37384 Contra Costa
37.92	-122.35946 Contra Costa
37.9503	-122.35206 Contra Costa
37.93716	-122.32724 Contra Costa
37.93672	-122.32581 Contra Costa
37.92	-122.35946 Contra Costa
37.94868	-122.35692 Contra Costa
37.92521	-122.36897 Contra Costa
37.92506	-122.34755 Contra Costa
37.93716	-122.32724 Contra Costa
37.91467	-122.34168 Contra Costa
37.94868	-122.356952 Contra Costa
37.94868	-122.35692 Contra Costa
37.93672	-122.32581 Contra Costa
37.91467	-122.34168 Contra Costa
37.93716	-122.32714 Contra Costa
37.92	-122.35946 Contra Costa
37.94704	-122.34744 Contra Costa
37.92	-122.35946 Contra Costa
37.93187	-122.32472 Contra Costa
37.94883	-122.34745 Contra Costa
37.97709	-122.3628 Contra Costa

[illegible]

Manhole ID 010297 located at the intersection of San Pablo Ave & Nevin Ave
Manhole ID 010297 located at the intersection of San Pablo Ave & Nevin Ave
Manhole ID 010297 located at the intersection of San Pablo Ave & Nevin Ave

MH# 050043.01-050020

MH #-110049-110073

MH #-020096-020048

MH #- 040140-040136

Main line blockage caused overflow from lateral clean-out

Back-up into business at 353 24th St.

Manhole at intersection of 24th St. & Rheem Ave

Constructed overflow weir

Sewer back-up into home from mainline.

Overflow weir located at Harbour Way South and Wright Ave.

Manhole near 3410 Barrett Ave.

Manhole near address spilled sewage into stormdrain.

Intersection of Nevin Ave & San Pablo Ave

Sewage backing up out of Lateral at location

Manhole in Street

Overflow Weir at Harbour Way South

Manhole at curb in front of address next to storm drain.

Manhole at intersection of San Pablo Ave & I-80 East on ramp.

Manhole at intersection of Wilson Ave & Roosevelt Ave.

Overflow weir at Boat Ramp Rd.

Manhole at intersection of Curry St. & W. Chanslor

Storms caused system to reach maximum hydraulic capacity, which activated constructed overflow weir.

Manhole at intersection

Manhole at intersection of Wilson & San Pablo Ave.

Underpass at on-ramp at I-80 East @ San Pablo Ave

Overflow weir at Harbour Way & Wright Ave

Residential/business location

Overflow weir @ Boat Ramp Rd & Cutting Blvd

Manhole @ intersection

Manhole at intersection of 13th St and Dunn Ave.

Manhole at underpass

overflow weir

Overflow at engineered overflow weir

Other (specify)
Manhole
Manhole
Manhole
Manhole
Other sewer system structure
Other sewer system structure
Manhole
Manhole
Other (specify)
Other sewer system structure
Building or structure;Gravity sewer
Other sewer system structure
Other sewer system structure
Manhole
Gravity sewer
Gravity sewer;Manhole
Other sewer system structure
Gravity sewer
Building or structure
Gravity sewer
Gravity sewer
Gravity sewer
Manhole
Other sewer system structure
Force main or pressure sewer
Other sewer system structure
Manhole
Manhole
Manhole
Manhole
Other sewer system structure
Other sewer system structure
Manhole
Gravity sewer
Manhole
Manhole
Manhole
Other sewer system structure
Other sewer system structure
Other (specify)
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Other sewer system structure
Manhole
Other sewer system structure
Manhole
Manhole
Manhole

CRACKS IN SIDEWALK NEXT TO PRIVATE LATERAL CLEANOUT.
MH # 050102

TOILET
Sink hole

CLEANOUT
Lateral clean-out

LATERAL AND BATHTUB
lateral, bathtub

FROM PRIVATE CLEANOUTS DUE TO BLOCKAGE OF CITY OWNED LINE.

Overflow Weir

Residential Lateral

Overflow weir

Overflow weir
overflow weir

Overflow weir

Overflow weir
clean-out
Overflow weir

Excessive rain has caused sewer system to reach maximum hydraulic capacity causing sewer to overflow at manhole.
Engineered Overflow Weir

Engineered overflow weir

Separate storm drain;Street/curb and gutter
Separate storm drain;Street/curb and gutter
Storm drain
Storm drain
Storm drain
Building or structure
Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Other paved surface
Other paved surface
Building or structure;Street/curb and gutter
Building or structure
Other (specify below)
Street/curb and gutter
Street/curb and gutter
Separate storm drain
Surface water
Surface water
Building or structure
Surface water
Street/curb and gutter
Separate storm drain;Street/curb and gutter
Street/curb and gutter
Building or structure
Street/curb and gutter
Surface water
Separate storm drain;Surface water
Separate storm drain
Separate storm drain;Street/curb and gutter;Surface water
Separate storm drain;Street/curb and gutter;Surface water
Surface water
Surface water
Other paved surface;Street/curb and gutter
Surface water
Street/curb and gutter;Surface water
Separate storm drain;Street/curb and gutter;Surface water
Street/curb and gutter;Surface water
Surface water
Other paved surface;Separate storm drain
Surface water
Street/curb and gutter;Surface water
Street/curb and gutter;Surface water
Street/curb and gutter;Surface water
Street/curb and gutter;Surface water
Surface water
Street/curb and gutter;Surface water
Street/curb and gutter;Surface water
Street/curb and gutter;Surface water
Combined storm drain (combined CS only)
Other (specify below)
Surface water
Separate storm drain
Separate storm drain
Separate storm drain

Back-up occurred at street and inside business

Lateral, bathtub

Santa Fe Channel

Santa Fe Channel

Sewage spilled into street and down gutter.

Santa Fe Channel

San Pablo Bay

Residential/Business Location

San Pablo Bay

Excessive rain has caused sewer system to reach maximum hydraulic capacity causing sewer to overflow at manhole.

Spill cleaned up and returned to sewer system.

Santa Fe Channel

San Pablo Creek System

2/1/2010 0:00	2/1/2010 11:55	2/1/2010 11:55	2/1/2010 12:10
2/5/2010 0:00	2/5/2010 8:15	2/5/2010 8:15	2/5/2010 8:25
3/2/2010 0:00	3/2/2010 9:05	3/2/2010 9:05	3/2/2010 11:00
3/2/2010 0:00	3/2/2010 9:05	3/2/2010 9:05	3/2/2010 11:00
3/3/2010 0:00	3/3/2010 6:30	3/3/2010 6:49	3/3/2010 10:00
3/3/2010 0:00	3/3/2010 13:15	3/3/2010 13:30	3/3/2010 13:45
5/9/2010 0:00	5/9/2010 19:30	5/9/2010 20:30	5/9/2010 20:35
5/13/2010 0:00	5/13/2010 9:35	5/13/2010 10:00	5/13/2010 10:25
5/23/2010 10:15	5/23/2010 10:15	5/23/2010 11:00	5/23/2010 11:45
6/1/2010 0:00	6/1/2010 7:07	6/1/2010 7:20	6/1/2010 7:30
9/12/2010 0:00	9/12/2010 12:00	9/12/2010 12:00	9/12/2010 12:45
9/28/2010 0:00	9/28/2010 13:45	9/28/2010 13:50	9/28/2010 14:15
10/16/2010 0:00	10/16/2010 20:45	10/16/2010 21:30	10/16/2010 21:55
9/23/2010 0:00	9/23/2010 10:00	9/23/2010 10:15	9/23/2010 10:30
10/26/2010 0:00	10/26/2010 13:30	10/26/2010 13:35	10/26/2010 13:40
11/29/2010 0:00	11/29/2010 9:15	11/29/2010 9:35	11/29/2010 9:45
12/4/2010 0:00	12/4/2010 16:00	12/4/2010 16:10	12/4/2010 16:20
12/19/2010 0:00	12/19/2010 6:00	12/19/2010 6:00	12/19/2010 23:56
12/19/2010 0:00	12/19/2010 9:01	12/19/2010 9:01	12/19/2010 9:16
12/20/2010 0:00	12/20/2010 18:05	12/20/2010 18:15	12/20/2010 18:20
12/28/2010 0:00	12/28/2010 20:50	12/28/2010 21:00	12/29/2010 9:10
12/29/2010 0:00	12/29/2010 9:45	12/29/2010 9:50	12/29/2010 10:00
1/4/2011 0:00	1/4/2011 9:20	1/4/2011 9:45	1/4/2011 13:45
1/17/2011 0:00	1/17/2011 12:40	1/17/2011 13:00	1/17/2011 13:20
1/30/2011 0:00	1/30/2011 19:00	1/30/2011 19:55	1/30/2011 20:55
2/13/2011 0:00	2/13/2011 1:25	2/13/2011 1:55	2/13/2011 2:00
2/17/2011 0:00	2/17/2011 11:36	2/17/2011 11:36	2/17/2011 17:52
2/17/2011 0:00	2/17/2011 12:40	2/17/2011 12:40	2/17/2011 13:20
2/17/2011 0:00	2/17/2011 12:40	2/17/2011 12:40	2/17/2011 14:00
2/17/2011 0:00	2/17/2011 12:40	2/17/2011 12:40	2/17/2011 14:30
2/17/2011 0:00	2/17/2011 12:40	2/17/2011 12:40	2/17/2011 14:20
2/18/2011 0:00	2/18/2011 21:55	2/18/2011 21:55	2/19/2011 22:34
2/19/2011 0:00	2/19/2011 13:02	2/19/2011 13:02	2/19/2011 15:20
2/25/2011 0:00	2/25/2011 1:40	2/25/2011 2:00	2/25/2011 3:10
2/25/2011 0:00	2/25/2011 2:16	2/25/2011 2:25	2/25/2011 11:38
3/5/2011 0:00	3/5/2011 10:30	3/5/2011 10:50	3/5/2011 11:00
3/18/2011 0:00	3/18/2011 12:45	3/18/2011 13:00	3/18/2011 13:50
3/18/2011 0:00	3/18/2011 12:45	3/18/2011 13:00	3/18/2011 13:50
3/18/2011 0:00	3/18/2011 13:22	3/18/2011 13:22	3/20/2011 14:18
3/18/2011 0:00	3/18/2011 13:30	3/18/2011 13:40	3/18/2011 15:50
3/18/2011 0:00	3/18/2011 21:27	3/18/2011 21:27	3/18/2011 21:27
3/20/2011 0:00	3/20/2011 0:20	3/20/2011 0:20	3/20/2011 3:00
3/20/2011 0:00	3/20/2011 0:20	3/20/2011 0:20	3/20/2011 2:00
3/20/2011 0:00	3/20/2011 0:10	3/20/2011 0:10	3/20/2011 2:15
3/23/2011 0:00	3/23/2011 7:30	3/23/2011 7:30	3/23/2011 9:45
3/24/2011 0:00	3/24/2011 9:56	3/24/2011 9:56	3/24/2011 10:45
3/24/2011 0:00	3/24/2011 11:00	3/24/2011 11:00	3/24/2011 11:45
3/24/2011 0:00	3/24/2011 11:20	3/24/2011 11:20	3/24/2011 11:20
3/24/2011 0:00	3/24/2011 11:20	3/24/2011 12:20	3/24/2011 12:20
3/24/2011 0:00	3/24/2011 11:36	3/24/2011 11:36	3/24/2011 11:36
3/24/2011 0:00	3/24/2011 17:45	3/24/2011 18:00	3/24/2011 18:15
3/26/2011 0:00	3/26/2011 7:34	3/26/2011 7:34	3/26/2011 13:56
3/26/2011 0:00	3/26/2011 8:31	3/26/2011 8:31	3/26/2011 11:30
3/26/2011 0:00	3/26/2011 8:31	3/26/2011 8:31	3/26/2011 15:05
3/26/2011 0:00	3/26/2011 8:31	3/26/2011 8:31	3/26/2011 8:31

[illegible]

Inflow & Infiltration from storm surge caused the line to reach maximum hydraulic capacity.
Inflow & Infiltration from storm surge caused the line to reach maximum hydraulic capacity.
Inflow & Infiltration from storm surge caused the line to reach maximum hydraulic capacity.

Under investigation

Excessive rain and Inflow and infiltration

Due to excessive inflow and infiltration from storms, system has reached maximum hydraulic capacity and sewage has di

Overflow weir located at Harbour Way and Wright Ave surged due to excessive inflow and infiltration from storms causin

Not able to determine cause of spill. Still under investigation at this time.

Contractor working on line in area was bypassing line and pump failed, causing sewage to back-up. Operator was not at s

Storm caused inflow & infiltration into sewer line causing sewer to reach maximum hydraulic capacity.

System reached maximum hydraulic capacity and discharged at overflow weir.

Storm

Storms caused system to reach maximum hydraulic capacity, which activated constructed overflow weir.

System is hydraulically overloaded due to recent storms.

Excessive rain has caused sewer system to reach maximum hydraulic capacity causing sewer to overflow at manhole.

Excessive rain has caused sewer system to reach maximum hydraulic capacity causing sewer to overflow at manhole.

Excessive rain has caused sewer system to reach maximum hydraulic capacity causing sewer to overflow at overflow we

Main
Main

[Main](#)

[illegible]

Overflow weir located at Harbour Way and Wright Ave surged due to excessive inflow and infiltration from storms causing

g untreated sewage to discha

Reported to site, mitigated spill downstream. Blocked off storm drain, cleaned up and returned all of spill to sanitary sewer.

Due to excessive storm/rain, unable to restore flow at this time.

Not able to clean up spill due to storm and volume of discharge.

Unable to clean-up spill due to location of spill. Overflow weir is specifically constructed to relieve pipe when maximum height is reached.
Unable to clean up spill due to storm.
Unable to clean up spill due to storm.

Unable to clean up until after rain stops
Unable to clean up due to storm.
Unable to restore flow at this time due to size of storm.
Unable to restore flow at this time due to heavy storms.
Flushed streets and recovered as much of flush water from storm drain system as possible.

Unable to clean-up spill due to direct discharge to Santa Fe Channel

Storm surge made clean-up impossible
Not able to restore flow at current time due to storm surge. Will continue efforts until storm subsides.
Not able to restore flow at current time due to storm surge. Will continue efforts until storm subsides.
Not able to restore flow at current time due to storm surge. Will continue efforts until storm subsides.
Crew is on site working to clean-up spill and restore flow. However, clean-up has been delayed until storms subside to continue.

Unable to contain/clean-up spill due to size of storm.
Unable to clean up spill due to excessive rain from storms.
Unable to clean up spill at this time due to excessive rain from storms.
Unable to clean up spill due to excessive rain from storms.

Electronically recording volume overflowing
Observe discharge
Observed discharge
Observed discharge

2/2/2010 12:10
2/5/2010 8:25
3/2/2010 11:00
3/2/2010 11:00
3/2/2010 10:00

12/19/2010 23:56
12/19/2010 9:19

12/29/2010 9:10

2/13/2011 2:00
2/17/2011 17:52
2/17/2011 13:20
2/17/2011 14:00
2/17/2011 14:30
2/17/2011 14:20
2/19/2011 22:34
2/19/2011 0:00
2/25/2011 3:10
2/25/2011 0:00
3/5/2011 11:20
3/18/2011 14:00
3/18/2011 14:00
3/18/2011 0:00
3/18/2011 14:00
3/19/2011 0:00
3/20/2011 3:00
3/20/2011 3:15
3/20/2011 3:15
3/23/2011 10:45
3/24/2011 11:00
3/24/2011 12:45
3/24/2011 11:45
3/24/2011 14:45
3/24/2011 0:00

3/26/2011 13:56
3/26/2011 11:30
3/26/2011 17:00
3/26/2011 0:00

Adjusted schedule/method of preventive maintenance
Adjusted schedule/method of preventive maintenance
Other (specify below)
Other (specify below)
Other (specify below)

Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer

Plan rehabilitation or replacement of sewer

Added sewer to preventive maintenance program
Plan rehabilitation or replacement of sewer
Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance
Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance
Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance
Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance
Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance
Plan rehabilitation or replacement of sewer
Other (specify below)
Adjusted schedule/method of preventive maintenance
Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance
Plan rehabilitation or replacement of sewer
Adjusted schedule/method of preventive maintenance;Other (specify below)
Plan rehabilitation or replacement of sewer
Added sewer to preventive maintenance program
Added sewer to preventive maintenance program
Added sewer to preventive maintenance program
Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance;Plan rehabilitat
Adjusted schedule/method of preventive maintenance
Added sewer to preventive maintenance program
Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance
Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance
Plan rehabilitation or replacement of sewer

Adjusted schedule/method of preventive maintenance
Plan rehabilitation or replacement of sewer
Adjusted schedule/method of preventive maintenance
Adjusted schedule/method of preventive maintenance

Ongoing investigation as to the recurring cause of overflows at this location.
Ongoing investigation as to the recurring cause of overflows at this location.
Ongoing investigation as to the recurring cause of overflows at this location.

Will video Sewer line for possible defects and adjust maintenance/repair schedule accordingly.

Planned investigation as to cause of SSO at this location.

Yes
Yes
Yes
Yes
Yes

Yes
Yes

Yes

Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
No
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes

Yes
Yes
Yes
No

Not applicable

NA
NA

None
None
None

None
None-too dark to see visable signs

No
No
No
No
No

No
No

Yes

No
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
No
No
No
No
No
No
No
No
No
No
No
No
No
No

No
No
No
No

NA
NA
NA
NA
NA

None

None
NA
NA
NA

None
None.
Keller Beach

Keller Beach
Keller Beach
Keller Beach
Keller Beach
None
Keller Beach
None
None

None
None
None

None
None
None

None
None
None
None
None

SAN PABLO BAY
San Pablo Bay
San Francisco Bay
San Francisco Bay
Santa Fe Channel

None
NONE

San Pablo Bay
Santa Fe Channel
Santa Fe Channel
None
Santa Fe Channel
NA
None
None
N/A
None
Santa Fe Channel
Santa Fe Channel/ San Francisco Bay
Santa Fe Channel
Santa Fe Channel
Santa Fe Channel
Santa Fe Channel & San Francisco Bay
Santa Fe Channel
None
Santa Fe Channel
San Pablo Bay
San Pablo Bay
San Pablo Bay
Santa Fe Channel and San Francisco Bay
San Pablo Bay
Santa Fe Channel/San Francisco Bay
Santa Fe Channel
Santa Fe Channel
Santa Fe Channel
San Pablo Bay
San Pablo bay
San Pablo Bay
Santa Fe Channel
San Pablo Bay
Santa Fe Channel / San Francisco Bay
None
Santa Fe Channel a tributary of San Francisco Bay
San Pablo Creek System
San Pablo Creek System
San Pablo Creek System

Not applicable to this spill
Not applicable to this spill
No water quality samples taken
No water quality samples taken
No water quality samples taken

Dissolved oxygen; Biological indicator(s) - specify below
No water quality samples taken

Biological indicator(s) - specify below

No water quality samples taken
Biological indicator(s) - specify below
Biological indicator(s) - specify below
Biological indicator(s) - specify below
Biological indicator(s) - specify below
Biological indicator(s) - specify below
Biological indicator(s) - specify below
Other chemical indicator(s) - specify below
No water quality samples taken
Biological indicator(s) - specify below
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
Biological indicator(s) - specify below
Biological indicator(s) - specify below
Biological indicator(s) - specify below
No water quality samples taken
Not applicable to this spill
No water quality samples taken
No water quality samples taken
No water quality samples taken
Biological indicator(s) - specify below

No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken

LOCATION APPROX. 3 MI. FROM SF BAY. (NON-STORM EVENT)

Total coliform and BOD

Total Coliform

Total coliform
Total coliform
total coliform
total coliform
total coliform
Total coliform
total coliform

Total Coliform

Due to distannce to surface water from spill location, no samples were taken.
Not able to take samples at this time.

Total Coliform
Total Coliform
Total Coliform

total coliform

Not applicable to this spill
Not applicable to this spill
No water quality samples taken
No water quality samples taken
No water quality samples taken

Regional Water Quality Control Board
No water quality samples taken

Regional Water Quality Control Board

None of the above
County Health Agency;Regional Water Quality Control Board
County Health Agency;Regional Water Quality Control Board
County Health Agency;Regional Water Quality Control Board
County Health Agency;Regional Water Quality Control Board
County Health Agency;Regional Water Quality Control Board
County Health Agency;Regional Water Quality Control Board
County Health Agency;Regional Water Quality Control Board
No water quality samples taken
County Health Agency;Regional Water Quality Control Board
County Health Agency;Regional Water Quality Control Board
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
County Health Agency;Regional Water Quality Control Board
County Health Agency;Regional Water Quality Control Board
County Health Agency;Regional Water Quality Control Board
None of the above;No water quality samples taken
Not applicable to this spill
No water quality samples taken
No water quality samples taken
No water quality samples taken
County Health Agency;Regional Water Quality Control Board

No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken

100856	2/1/2010 0:00
100943	2/5/2010 10:24
101494	3/2/2010 9:18
101494	3/2/2010 9:18
101515	3/2/2010 6:32

105485	9/12/2010 13:00
105839	9/28/2010 15:30

107290	12/4/2010 17:38
107607	12/19/2010 6:15
107615	12/19/2010 9:05

107925	10/28/2010 21:14
107949	12/29/2010 10:32
110052	1/4/2011 13:25

110864	2/13/2011 2:08
110961	2/17/2011 11:50
110970	2/17/2011 14:15
110968	2/17/2011 14:00
110971	2/17/2011 14:35
110971	2/17/2011 14:30
111011	2/18/2011 22:22
111027	2/19/2011 13:09
111149	2/25/2011 2:21
111150	2/25/2011 2:39
111336	3/5/2011 11:33
111623	3/18/2011 13:25
111624	3/18/2011 13:29
111625	3/18/2011 13:48
111626	3/18/2011 13:50
111647	3/18/2011 21:56
111676	3/20/2011 1:03
111677	3/20/2011 0:04
111678	3/20/2011 1:06
111799	3/23/2011 7:57
111836	3/24/2011 10:16
111842	3/24/2011 11:42
111843	3/24/2011 11:46
111844	3/24/2011 11:52
111845	3/24/2011 11:56

111952	3/26/2011 8:04
111953	3/26/2011 8:58
111957	3/26/2011 9:30
111958	3/26/2011 9:45

2SSO10170	Active	764840 Bill Lindsay	Certified
2SSO10170	Active	764841 Bill Lindsay	Certified
2SSO10170	Active	765616 Bill Lindsay	Certified
2SSO10170	Active	766624 Bill Lindsay	Certified
2SSO10170	Active	767590 Bill Lindsay	Certified
2SSO10170	Active	767841 Bill Lindsay	Certified
2SSO10170	Active	768551 Bill Lindsay	Certified
2SSO10170	Active	770033 Stephen Friday	Certified
2SSO10170	Active	770037 Mary Phelps	Certified
2SSO10170	Active	770389 Mary Phelps	Certified
2SSO10170	Active	771624 Mary Phelps	Certified
2SSO10170	Active	771874 Mary Phelps	Certified
2SSO10170	Active	772953 Mary Phelps	Certified
2SSO10170	Active	773155 Mary Phelps	Certified
2SSO10170	Active	773502 Mary Phelps	Certified
2SSO10170	Active	773827 Mary Phelps	Certified
2SSO10170	Active	774750 Mary Phelps	Certified
2SSO10170	Active	775904 Mary Phelps	Certified
2SSO10170	Active	776245 Mary Phelps	Certified
2SSO10170	Active	776292 Mary Phelps	Certified
2SSO10170	Active	776763 Mary Phelps	Certified
2SSO10170	Active	778015 Mary Phelps	Certified
2SSO10170	Active	778129 Mary Phelps	Certified
2SSO10170	Active	778632 Mary Phelps	Certified
2SSO10170	Active	778640 Mary Phelps	Certified
2SSO10170	Active	778641 Mary Phelps	Certified
2SSO10170	Active	778643 Mary Phelps	Certified
2SSO10170	Active	778645 Mary Phelps	Certified
2SSO10170	Active	778652 Mary Phelps	Certified
2SSO10170	Active	778655 Mary Phelps	Certified
2SSO10170	Active	778729 Mary Phelps	Certified
2SSO10170	Active	778760 Mary Phelps	Certified
2SSO10170	Active	779157 Mary Phelps	Certified
2SSO10170	Active	780050 Mary Phelps	Certified
2SSO10170	Active	780861 Mary Phelps	Certified
2SSO10170	Active	780968 Mary Phelps	Certified
2SSO10170	Active	782056 Stephen Friday	Certified
2SSO10170	Active	784459 Mary Phelps	Certified
2SSO10170	Active	784460 Mary Phelps	Certified
2SSO10170	Active	785084 Mary Phelps	Certified
2SSO10170	Active	785844 Mary Phelps	Certified
2SSO10170	Active	786240 Mary Phelps	Certified
2SSO10170	Active	786583 Mary Phelps	Certified
2SSO10170	Active	787205 Mary Phelps	Certified
2SSO10170	Active	788605 Mary Phelps	Certified
2SSO10170	Active	788643 Mary Phelps	Certified
2SSO10170	Active	788646 Mary Phelps	Certified
2SSO10170	Active	788647 Mary Phelps	Certified
2SSO10170	Active	788648 Mary Phelps	Certified
2SSO10170	Active	788650 Mary Phelps	Certified
2SSO10170	Active	788655 Mary Phelps	Certified
2SSO10170	Active	788677 Mary Phelps	Certified
2SSO10170	Active	788736 Mary Phelps	Certified
2SSO10170	Active	789152 Mary Phelps	Certified
2SSO10170	Active	789282 Mary Phelps	Certified

[illegible]

City Hall	395288
City Hall	703168
City Hall	251481
City Hall	354691
City Hall	674345
City Hall	468817
City Hall	341236
City of Richmond	117647
Richmond, CA	527720
Richmond, CA	904477
Richmond, CA	123569
Richmond, CA	958618
Richmond, CA	851435
Richmond, CA	811876
Richmond, CA	951442
Richmond, CA	790617
Richmond, CA	412143
Richmond, CA	281899
Richmond, CA	765786
Richmond, CA	573343
Richmond, CA	560124
Richmond, CA	747709
Richmond, CA	476071
Richmond, CA	726802
Richmond, CA	141571
Richmond, CA	305019
Richmond, CA	853086
Richmond, CA	469267
Richmond, CA	728765
Richmond, CA	189983
Richmond, CA	682987
Richmond, CA	715979
Richmond, CA	390499
Richmond, CA	373234
Richmond, CA	516844
Richmond, CA	158836
City of Richmond	378026
Richmond, CA	584583
Richmond, CA	496686
Richmond, CA	133819
Richmond, CA	299184
Richmond, CA	618993
Richmond, CA	779027
Richmond, CA	753333
Richmond, CA	112280
Richmond, CA	830639
Richmond, CA	682025
Richmond, CA	919811
Richmond, CA	121911
Richmond, CA	200606
Richmond, CA	921098
Richmond, CA	161623
Richmond, CA	516659
Richmond, CA	793441
Richmond, CA	240043

26-Mar-11	3/26/2011	21-Jul-11	7/21/2011
26-Mar-11	3/26/2011	21-Jul-11	7/21/2011
19-Apr-11	4/19/2011	21-Jul-11	7/21/2011
17-May-11	5/17/2011	21-Jul-11	7/21/2011
17-Jun-11	6/17/2011	21-Jul-11	7/21/2011
27-Jun-11	6/27/2011	21-Jul-11	7/21/2011
16-Jul-11	7/21/2011	21-Jul-11	7/21/2011
19-Aug-11	8/19/2011	6-Sep-11	9/6/2011
19-Aug-11	8/19/2011	25-Oct-11	10/25/2011
26-Aug-11	8/26/2011	25-Oct-11	10/25/2011
30-Sep-11	9/30/2011	10-Nov-11	11/10/2011
9-Oct-11	10/9/2011	10-Nov-11	11/10/2011
10-Nov-11	11/10/2011	10-Nov-11	11/10/2011
15-Nov-11	11/17/2011	1-Dec-11	12/1/2011
28-Nov-11	11/28/2011	8-Dec-11	12/8/2011
8-Dec-11	12/8/2011	22-Dec-11	12/22/2011
25-Dec-11	12/25/2011	23-Jan-12	1/23/2012
14-Jan-12	1/14/2012	2-Feb-12	2/2/2012
23-Jan-12	1/23/2012	8-Mar-12	3/8/2012
23-Jan-12	1/23/2012	16-Feb-12	2/16/2012
2-Feb-12	2/2/2012	16-Feb-12	2/16/2012
27-Feb-12	2/27/2012	4-Apr-12	4/4/2012
29-Feb-12	2/29/2012	5-Apr-12	4/5/2012
14-Mar-12	3/14/2012	5-Apr-12	4/5/2012
14-Mar-12	3/14/2012	5-Apr-12	4/5/2012
14-Mar-12	3/14/2012	5-Apr-12	4/5/2012
14-Mar-12	3/14/2012	5-Apr-12	4/5/2012
14-Mar-12	3/14/2012	5-Apr-12	4/5/2012
14-Mar-12	3/14/2012	5-Apr-12	4/5/2012
14-Mar-12	3/14/2012	5-Apr-12	4/5/2012
14-Mar-12	3/14/2012	5-Apr-12	4/5/2012
15-Mar-12	3/15/2012	5-Apr-12	4/5/2012
16-Mar-12	3/16/2012	5-Apr-12	4/5/2012
27-Mar-12	3/27/2012	4-Apr-12	4/5/2012
12-Apr-12	4/12/2012	25-Apr-12	4/25/2012
1-May-12	5/1/2012	30-May-12	5/30/2012
4-May-12	5/4/2012	30-May-12	5/30/2012
11-Jun-12	6/11/2012	22-Jun-12	6/22/2012
31-Jul-12	7/31/2012	31-Aug-12	8/31/2012
31-Jul-12	7/31/2012	31-Aug-12	8/31/2012
13-Aug-12	8/28/2012	28-Aug-12	8/28/2012
31-Aug-12	8/31/2012	1-Oct-12	10/1/2012
14-Sep-12	10/31/2012	31-Oct-12	10/31/2012
25-Sep-12	10/31/2012	31-Oct-12	10/31/2012
15-Oct-12	10/15/2012	30-Nov-12	11/30/2012
30-Nov-12	11/30/2012	18-Dec-12	3/14/2013
1-Dec-12	12/18/2012	18-Dec-12	12/18/2012
2-Dec-12	12/18/2012	18-Dec-12	12/18/2012
2-Dec-12	12/19/2012	19-Dec-12	12/19/2012
2-Dec-12	12/18/2012	18-Dec-12	3/14/2013
2-Dec-12	12/19/2012	19-Dec-12	12/19/2012
2-Dec-12	12/19/2012	19-Dec-12	12/19/2012
3-Dec-12	12/3/2012	19-Dec-12	12/19/2012
4-Dec-12	12/19/2012	19-Dec-12	12/19/2012
19-Dec-12	12/21/2012	21-Dec-12	12/21/2012
23-Dec-12	1/7/2013	7-Jan-13	1/7/2013

Category 1	76520	0
Category 1	2380	0
Category 3	50	50
Category 3	25	25
Category 3	10	10
Category 3	45	45
Category 1	100	55
Category 3	100	0
Category 1	100	0
Category 1	4000	0
Category 3	10	0
Category 3	10	0
Category 3	1	1
Category 3	30	20
Category 1	25	0
Category 1	20000	0
Category 3	300	300
Category 3	240	20
Category 1	600	0
Category 1	480	0
Category 3	125	125
Category 3	75	75
Category 3	50	50
Category 1	5415333	0
Category 1	206150	0
Category 1	292800	0
Category 1	292500	0
Category 1	479520	0
Category 1	80325	0
Category 1	58850	0
Category 1	7000	0
Category 1	50	0
Category 1	5557	0
Category 3	200	100
Category 3	795	120
Category 3	10	10
Category 3	40	30
Category 3	847	847
Category 3	300	300
Category 1	10	0
Category 3	675	675
Category 3	540	540
Category 3	5	5
Category 3	540	540
Category 1	360	0
Category 1	2200	0
Category 1	5925	0
Category 1	334783	0
Category 1	1775	0
Category 1	3550	0
Category 1	900	0
Category 1	750	375
Category 1	71	0
Category 3	980	980
Category 1	209035	0

76520	Yes	Yes
2380	Yes	Yes
0	No	No
0	No	No
0	No	No
0	No	No
45	Yes	Yes
0	No	No
100	Yes	Yes
1500	Yes	Yes
0	No	No
0	No	No
0	No	No
0	No	No
25	Yes	Yes
20000	Yes	Yes
0	No	No
0	No	Yes
600	Yes	Yes
480	Yes	Yes
0	No	Yes
0	No	No
0	No	No
5415333	Yes	Yes
206150	Yes	Yes
292800	Yes	Yes
292500	Yes	Yes
479520	Yes	Yes
80325	Yes	Yes
58850	Yes	Yes
7000	Yes	Yes
50	Yes	Yes
5557	Yes	Yes
0	No	Yes
0	No	No
0	No	No
0	No	Yes
0	No	No
0	No	No
10	Yes	Yes
0	No	Yes
0	No	Yes
0	No	No
0	No	Yes
360	Yes	Yes
2200	Yes	Yes
5925	Yes	Yes
334783	Yes	Yes
1775	Yes	Yes
3550	Yes	Yes
900	Yes	Yes
375	No	Yes
71	Yes	Yes
0	No	No
209035	Yes	Yes

No
No
Not Applicable - Spill did not reach a separate storm drainpipe
Not Applicable - Spill did not reach a separate storm drainpipe
Not Applicable - Spill did not reach a separate storm drainpipe
Not Applicable - Spill did not reach a separate storm drainpipe
No
Not Applicable - Spill did not reach a separate storm drainpipe
No
No
Not Applicable - Spill did not reach a separate storm drainpipe
Not Applicable - Spill did not reach a separate storm drainpipe
Not Applicable - Spill did not reach a separate storm drainpipe
Not Applicable - Spill did not reach a separate storm drainpipe
No
No
Not Applicable - Spill did not reach a separate storm drainpipe
No
No
Yes
No
Not Applicable - Spill did not reach a separate storm drainpipe
Not Applicable - Spill did not reach a separate storm drainpipe
No
No
Yes
No
No
No
No
No
Yes
No
No
Not Applicable - Spill did not reach a separate storm drainpipe
Not Applicable - Spill did not reach a separate storm drainpipe
No
Not Applicable - Spill did not reach a separate storm drainpipe
Not Applicable - Spill did not reach a separate storm drainpipe
No
Yes
Yes
Not Applicable - Spill did not reach a separate storm drainpipe
Yes
No
No
No
No
No
No
No
No
No
No
Not Applicable - Spill did not reach a separate storm drainpipe
No

2824 Regatta Boulevard
23rd Street & Cutting Boulevard
4925 Macdonald Ave. Safeway Store
651 41st Street
157 South 20th Street
2541 Rheem Avenue
San Pablo Ave & Nevin Ave
305 Golden Gate Avenue
Keller Beach Manhole
35th & Bissell Ave
444 Key Blvd
659 S 21 St.
10823 San Pablo Ave
2120 Lincoln Ave
3429 Cutting Blvd
1 West Richmond Ave
1612 Bissell Ave
332 S 41st St
842 Amador Ave
1501 Rheem Ave
#6 13th Street
1420 Pennsylvania Avenue
5308 Zara Avenue
Harbour & Wright Ave
1301 Dunn Ave
2301 Cutting Blvd
3201 Leona Ave
300 West Chanslor Ave
3501 Wall Ave
1900 Meeker Ave
441 Santa Fe Ave
441 Santa Fe. Ave
860 Wright Ave.
2280 Key Blvd
615 Western Drive
973 29th Street
Intersection of Humboldt Street and Garvin Avenue
West Chanslor & Collins Ct.
1405 Hellings Ave
36 17th Street
516 Dimm St.
1900 Macdonald Ave
1315 Bishop Avenue
21st Street & Macdonald Ave (AC Transit Building)
2535 Andrade Ave
1300 Dunn Ave.
1300 Dunn Ave
Harbour & Wright
South 23rd & Cutting (North Side)
South 23rd and Cutting Blvd (South)
3rd & Pennsylvania Ave
3600 Cutting Blvd
2400 Maine Ave
1604 Visalia Ave.
860 Harbour Way South

37.91467	-122.34168 Contra Costa
37.92523	-122.34765 Contra Costa
37.93286	-122.32301 Contra Costa
37.939376	-122.329592 Contra Costa
37.92966	-122.35068 Contra Costa
37.95009	-122.3435 Contra Costa
38.00651	-122.28914 Contra Costa
37.92635	-122.38874 Contra Costa
37.92093	-122.3867 Contra Costa
37.93318	-122.33601 Contra Costa
37.93474	-122.32246 Contra Costa
37.92283	-122.34988 Contra Costa
37.91413	-122.31064 Contra Costa
37.94576	-122.34873 Contra Costa
37.92545	-122.33634 Contra Costa
37.92495	-122.38463 Contra Costa
37.93406	-122.35394 Contra Costa
37.92714	-122.33037 Contra Costa
37.94621	-122.32413 Contra Costa
37.9496	-122.35553 Contra Costa
37.93173	-122.35666 Contra Costa
37.94187	-122.3559 Contra Costa
37.9378	-122.32043 Contra Costa
37.92084	-122.36006 Contra Costa
37.94868	-122.35692 Contra Costa
37.92516	-122.34764 Contra Costa
37.93263	-122.33862 Contra Costa
37.93284	-122.37388 Contra Costa
37.92804	-122.33666 Contra Costa
37.91943	-122.35067 Contra Costa
37.92504	-122.38836 Contra Costa
37.92504	-122.38836 Contra Costa
37.92	-122.35916 Contra Costa
37.93119	-122.32112 Contra Costa
37.92815	-122.39289 Contra Costa
37.94562	-122.33884 Contra Costa
37.945	-122.32514 Contra Costa
37.93455	-122.37077 Contra Costa
37.94834	-122.35623 Contra Costa
37.93076	-122.35307 Contra Costa
37.93652	-122.32228 Contra Costa
37.93568	-122.35204 Contra Costa
37.92336	-122.38818 Contra Costa
37.93573	-122.34952 Contra Costa
37.948	-122.3435 Contra Costa
37.94868	-122.35692 Contra Costa
37.94868	-122.35692 Contra Costa
37.92001	-122.35968 Contra Costa
37.92489	-122.34742 Contra Costa
37.92523	-122.34761 Contra Costa
37.94259	-122.36668 Contra Costa
37.92525	-122.33517 Contra Costa
37.92776	-122.34647 Contra Costa
37.94647	-122.35433 Contra Costa
37.92001	-122.35968 Contra Costa

[illegible]

Manhole located at driveway of Safeway store
Manhole near Wilson Elementary School
Shower drain inside home
Private lateral overflowed to to a blockage in the City's sanitary sewer main.
Clean-out near address

Manhole upstream of Kellers Beach area was blocked with debris causing sewage to discharge onto the beach and into the

Backyard area
Resident's backyard
Clean out at curb at address of 10823 San Pablo Ave.

Clean-out in Church sidewalk-planting strip
Broken pipe cross-connected to storm drain
Manhole in middle of street.

Overflow weir at Harbour Way South and Wright
Manhole overflowing
Manhole

Manhole overflowing due to storm surge

Manhole
Clean-out overflowing due to blockage in main line.
Engineered Overflow weir

Clean-out in front of resident's home
Spill originated from location name but entered storm drain inlet at the intersection of Humboldt Street and Solano Avenue
Street and gutter

Manhole

Clean-out in front yard of private residence
Manhole surging due to storm
clean-out/manhole
Engineered overflow weir
Manhole near storm drain

Manhole
Engineered overflow weir

ie sand.

e (one block away)

Manhole
Manhole
Manhole
Manhole
Building or structure
Other (specify)
Gravity sewer;Manhole
Other (specify)
Manhole
Gravity sewer
Manhole
Gravity sewer;Manhole;Other sewer system structure
Other (specify)
Other (specify)
Manhole
Gravity sewer
Manhole
Manhole
Manhole
Manhole
Other sewer system structure
Other (specify)
Building or structure
Other sewer system structure
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Other sewer system structure
Other sewer system structure
Other sewer system structure
Other (specify)
Other sewer system structure
Manhole
Other (specify)
Other (specify)
Manhole
Other sewer system structure
Gravity sewer;Manhole
Manhole
Manhole;Other sewer system structure
Other sewer system structure
Gravity sewer;Manhole
Manhole
Other (specify)
Manhole
Manhole
Gravity sewer
Manhole
Manhole
Manhole
Other (specify)

Private Lateral cleanout downstream of its backflow prevention device.

clean-out near address

Clear water containing high levels of ammonia upwelling from the hillside ground was originally believed from a private lateral

Manhole

clean-out located in backyard/easement area

cleanout in backyard

Clean out at curb at address of 10823 San Pablo Ave.

Front yard (grass) at Resident's home.

Clean-out

Sewer pipe

clean-out on property discharged to sidewalk, eventually discharging (flowing) to Storm drain.

EBMUD utility box

Engineered overflow weir

Severe storm is overloading system causing manhole to overflow.

Clean-out

Engineered overflow weir

Clean-out

Cracks in street and ground

Clean-out

Intersection of Humboldt Street & Garvin Avenue

Cracks in street

Cracks in gutter

Private clean-out

Clean-out in front of building

Clean-out in front of private residence

Engineered overflow weir

Manhole overflowing due to blockage

Engineered overflow weir

Separate storm drain
Separate storm drain
Other paved surface
Street/curb and gutter
Building or structure
Street/curb and gutter
Other paved surface;Street/curb and gutter;Unpaved surface
Street/curb and gutter;Unpaved surface;Other (specify below)
Beach
Other paved surface
Other (specify below)
Unpaved surface
Street/curb and gutter
Other (specify below)
Street/curb and gutter
Surface water
Street/curb and gutter
Separate storm drain
Street/curb and gutter;Surface water
Other paved surface;Separate storm drain
Separate storm drain;Street/curb and gutter;Surface water
Street/curb and gutter
Building or structure
Surface water
Street/curb and gutter;Surface water
Street/curb and gutter;Surface water
Street/curb and gutter;Surface water
Street/curb and gutter;Surface water
Separate storm drain;Street/curb and gutter
Street/curb and gutter;Surface water
Beach;Separate storm drain;Street/curb and gutter;Surface water
Separate storm drain;Street/curb and gutter;Surface water;Other (specify below)
Surface water
Street/curb and gutter
Unpaved surface
Other paved surface;Street/curb and gutter
Separate storm drain
Street/curb and gutter
Street/curb and gutter
Separate storm drain;Street/curb and gutter
Other paved surface;Separate storm drain;Street/curb and gutter
Other (specify below)
Street/curb and gutter
Street/curb and gutter;Other (specify below)
Street/curb and gutter
Street/curb and gutter;Surface water
Separate storm drain;Street/curb and gutter
Separate storm drain;Surface water
Separate storm drain;Street/curb and gutter
Separate storm drain;Street/curb and gutter
Street/curb and gutter;Surface water
Separate storm drain;Street/curb and gutter
Separate storm drain;Street/curb and gutter
Street/curb and gutter;Unpaved surface
Surface water

Manhole - spill completely contained and returned to system
Sewage spilled from manhole into street and was contained in gutter.

City's sewer crew was able to collect all the overflowing sewage.
drainage ditch
It percolated into ground approximately 20 feet downhill from the point of origin.
Sewage spilled onto the sand of the beach.

Grassy area of backyard of Richmond Resident
resident's backyard
Street/curb during clean-up, then sewage returned to sanitary sewer system.
Front yard (grass) at Resident's home
Spill was reported late to District, so it's assumed that spill discharged into gutter and eventually to storm drain. Debris/m:
Santa Fe Channel
No storm drains in area with sewage. Crew investigated all nearby drop-inlets, no residue, nor sewage present.

Santa Fe Channel

Sewage is flowing downhill to the stormdrain, which eventually may discharge near Keller Beach.
Clean-out flowing downhill and discharging (potentially) at Keller Beach

Sewage percolated into the ground 300 feet down the street from the source.
Street and drive-way at and near Resident's home

Storm drain pump station

Spill discharged into storm drain system, which is captured by the the storm drain pump station at 15th St. & Bissell Ave.
Street area eventually discharging into San Pablo Bay

Storm located within one foot of spill. Therefore crew was unable to recover any portion spilled.

3/26/2011 0:00	3/26/2011 8:31	3/26/2011 8:31	3/26/2011 0:00
3/26/2011 0:00	3/26/2011 8:31	3/26/2011 9:30	3/26/2011 0:00
4/19/2011 0:00	4/19/2011 8:10	4/19/2011 8:20	4/28/2011 8:28
5/17/2011 0:00	5/17/2011 15:11	5/17/2011 15:20	5/17/2011 15:25
6/11/2011 0:00	6/11/2011 12:44	6/11/2011 13:35	6/11/2011 14:35
6/24/2011 0:00	6/24/2011 19:00	6/24/2011 19:30	6/24/2011 19:45
7/16/2011 0:00	7/16/2011 19:00	7/16/2011 19:35	7/16/2011 19:45
8/12/2011 0:00	8/12/2011 14:00	8/15/2011 9:00	8/19/2011 11:30
8/19/2011 0:00	8/19/2011 16:50	8/19/2011 17:15	8/19/2011 17:15
8/18/2011 0:00	8/26/2011 7:45	8/26/2011 8:45	8/26/2011 8:45
9/28/2011 0:00	9/28/2011 7:00	9/28/2011 7:15	9/28/2011 9:05
10/9/2011 0:00	10/9/2011 20:40	10/9/2011 21:15	10/9/2011 22:00
10/17/2011 15:20	10/17/2011 16:20	10/17/2011 17:15	10/17/2011 18:45
11/15/2011 16:30	11/15/2011 16:45	11/15/2011 17:25	11/15/2011 17:55
11/26/2011 16:45	11/28/2011 10:55	11/28/2011 11:10	11/28/2011 12:00
12/8/2011 9:00	12/8/2011 9:00	12/8/2011 9:00	12/8/2011 11:30
12/24/2011 16:45	12/24/2011 17:30	12/24/2011 18:15	12/24/2011 19:20
1/14/2012 21:42	1/14/2012 21:42	1/14/2012 22:30	1/14/2012 23:20
1/23/2012 0:00	1/23/2012 8:51	1/23/2012 10:50	1/23/2012 11:30
1/23/2012 15:50	1/23/2012 15:50	1/23/2012 16:30	1/23/2012 16:40
2/2/2012 7:45	2/2/2012 8:15	2/28/2012 8:35	2/2/2012 9:40
2/27/2012 8:25	2/27/2012 8:25	2/27/2012 8:40	2/27/2012 8:50
2/29/2012 16:00	2/29/2012 19:30	2/29/2012 20:15	2/29/2012 18:30
3/14/2012 6:03	3/14/2012 6:15	3/14/2012 6:15	3/15/2012 0:59
3/14/2012 7:05	3/14/2012 9:15	3/14/2012 9:15	3/15/2012 5:15
3/14/2012 6:00	3/14/2012 8:45	3/14/2012 9:30	3/14/2012 22:00
3/14/2012 8:05	3/14/2012 9:30	3/14/2012 9:50	3/14/2012 21:05
3/14/2012 5:03	3/14/2012 9:00	3/14/2012 10:30	3/15/2012 3:15
3/14/2012 9:00	3/14/2014 13:15	3/14/2014 13:20	3/14/2012 21:45
3/14/2012 7:15	3/14/2012 13:50	3/14/2012 14:20	3/15/2012 1:05
3/14/2012 15:00	3/15/2012 15:15	3/15/2012 15:45	3/15/2012 16:45
3/16/2012 8:30	3/16/2012 9:00	3/16/2012 9:20	3/16/2012 9:20
3/27/2012 22:03	3/27/2012 22:03	3/27/2012 22:15	3/27/2012 22:57
4/12/2012 20:15	4/12/2012 20:15	4/12/2012 21:00	4/12/2012 21:40
4/30/2012 10:00	5/1/2012 11:10	5/1/2012 11:30	5/1/2012 12:30
5/4/2012 8:15	5/4/2012 8:45	5/4/2012 10:30	5/4/2012 11:00
6/11/2012 9:00	6/11/2012 9:25	6/11/2012 9:45	6/11/2012 10:00
7/6/2012 16:45	7/7/2012 21:30	7/7/2012 22:30	7/7/2012 23:15
7/16/2012 9:00	7/16/2012 14:45	7/16/2012 15:05	7/16/2012 15:15
8/10/2012 0:00	8/13/2012 14:50	8/13/2012 15:15	8/13/2012 16:00
8/10/2012 7:30	8/10/2012 7:45	8/10/2012 8:00	8/10/2012 8:15
9/14/2012 17:20	9/14/2012 18:15	9/14/2012 18:45	9/14/2012 19:20
9/25/2012 11:00	9/25/2012 11:00	9/25/2012 11:15	9/25/2012 12:00
10/14/2012 12:00	10/15/2012 11:30	10/15/2012 12:00	10/15/2012 12:05
11/30/2012 8:30	11/30/2012 8:45	11/30/2012 9:30	11/30/2012 10:00
12/1/2012 10:00	12/1/2012 10:10	12/1/2012 10:10	12/1/2012 14:00
12/2/2012 9:20	12/2/2012 9:20	12/2/2012 9:20	12/2/2012 15:35
12/2/2012 9:27	12/2/2012 9:27	12/2/2012 9:27	12/2/2012 13:55
12/2/2012 9:35	12/2/2012 9:35	12/2/2012 9:50	12/2/2012 13:18
12/2/2012 9:35	12/2/2012 9:35	12/2/2012 9:40	12/2/2012 13:18
12/2/2012 12:30	12/2/2012 12:45	12/2/2012 12:55	12/2/2012 16:45
12/3/2012 10:00	12/3/2012 10:15	12/3/2012 10:25	12/3/2012 10:25
12/4/2012 8:00	12/4/2012 8:30	12/4/2012 8:50	12/4/2012 9:15
12/12/2012 11:00	12/12/2012 11:00	12/12/2012 11:15	12/12/2012 12:40
12/23/2012 13:59	12/23/2012 13:59	12/23/2013 14:09	12/23/2012 17:26

Flow exceeded capacity (Separate CS Only)
Flow exceeded capacity (Separate CS Only)
Grease deposition (FOG)
Debri-General
Debri-Rags
Grease deposition (FOG)
Debri-General
Debri-Rags
Debri-General
Debri-General
Root intrusion
Grease deposition (FOG)
Grease deposition (FOG)
Grease deposition (FOG)
Grease deposition (FOG)
Pipe structural problem/failure
Grease deposition (FOG)
Debri-General
Debri-General
Debri-Rags
Other (specify below)
Grease deposition (FOG)
Other (specify below)
Flow exceeded capacity (Separate CS Only)
Flow exceeded capacity (Separate CS Only)
Flow exceeded capacity (Separate CS Only)
Flow exceeded capacity (Separate CS Only)
Flow exceeded capacity (Separate CS Only)
Flow exceeded capacity (Separate CS Only)
Flow exceeded capacity (Separate CS Only)
Root intrusion
Root intrusion
Flow exceeded capacity (Separate CS Only)
Debri-General
Pipe structural problem/failure
Pipe structural problem/failure
Debri-Rags
Root intrusion
Grease deposition (FOG)
Grease deposition (FOG)
Root intrusion
Grease deposition (FOG)
Root intrusion
Grease deposition (FOG)
Debri-General
Flow exceeded capacity (Separate CS Only)
Flow exceeded capacity (Separate CS Only)
Rainfall exceeded design (Separate CS Only)
Rainfall exceeded design (Separate CS Only)
Rainfall exceeded design (Separate CS Only)
Rainfall exceeded design (Separate CS Only)
Root intrusion
Other (specify below)
Root intrusion
Rainfall exceeded design (Separate CS Only)

Grease and roots at the next segment down MH#E14MH1982_E14MH469 where the blockage was located.

Main line showed heavy deposits of grease after cleaning. Resident did not report back-up to agency until Monday morning.
Broken sewer pipe, cross connected to storm drain. Spill start and arrival time are the same, because the operator is the |
Grease and rags in sewer line.

Cause is unknown at this time.

See attached investigative report

Unknown at this time...still under investigation.

Severe storm event caused system to be hydraulically overloaded

Severe Storm event

Severe storm caused system to become overloaded.

Severe storm event overloaded sewer system.

Severe storm event caused the system to become hydraulically overloaded.

Severe storm impacting hydraulic capacity of sewer causing manhole to overflow.

Storm surge caused sewer to overflow.

Resident did not report spill immediately. Thought that manhole overflowing was storm drain. Possibly due to storm. When

Severe storm resulted in excessive inflow and infiltration. This caused the sanitary sewer system to reach maximum hydraulic

Broken pieces of pipe were stuck in the main line at 121 ft. Call-out crew speculates that the broken pieces of pipe came

Broken Main line, potentially damaged due to broken lateral line.

The obstruction of rags and grease was cleared 282' downstream of overflowing manhole.

Residential area

Root intrusion and broken pipe

Heavy grease deposited in main line.

Excessive rain caused pipe to reach maximum hydraulic capacity

Severe storm caused pipe to reach maximum hydraulic capacity.

Severe Storm caused pipe to exceed maximum hydraulic capacity.

Storm caused pipe to exceed maximum hydraulic capacity.

Root intrusion combined with Grease caused a blockage in the mainline. Upon arrival, spill was minimal. Based on volume
Obstruction

Several large trees in the vicinity potentially causing root intrusion problem

Severe storms and I&I caused system to exceed hydraulic capacity.

[illegible]

The main had a hard plug, it was removed and a new connection was installed in the manhole.

Resident reported that spill had been ongoing for more than 8 days, but had not reported it until 8/26/2011. Mainline is b/c

Grease and roots at the next segment down MH#E14MH1982_E14MH469 where the blockage was located.

During routine maintenance, operator noticed that pipe discharge was not Normal after TV'ing the line, he noticed that th

Sewage backed up into basement of home.

System is currently hydraulically overloaded to do on-going severe storms.

Resident did not call SSO in right away due to they thought it was a storm drain manhole flooding because of the storm.

Previous call was reported as due to storm. After investigating call-out, it was determined that there were excessive roots

Service line

Engineered overflow weir.

Engineered overflow weir

icked. Crew is working on cle

8

6 VCP
6

ie discharge had been cross-

6 VCP

infiltrating the sewer main c:

6 VCP

Observed discharge
Observed discharge
N/A

Sewage percolated into ground.

Due to spill soaking into beach area, unable to clean-up/contain spill and return to sanitary sewer system.

Washed down area and cleaned up as much of debris as possible. Returned portion of spill to sewer. Most of material washed away.
Since the area was a grassy backyard, a small portion of the spill (10 gallons) had soaked into the ground from the line leak.

Used 20 gallons of flush water to clean area. Vactored flush water and sewage and returned to sewer system. Flush water was returned to sewer system.
Used wash water to in an effort to dilute the amount of sewage that had soaked into the grass area of the resident's yard.
Cleaned up area. Blocked storm drain upstream of location. Flushed and vactored debris in drain and returned wash water to sewer system.
Have placed temporary plug in line to prevent further discharge. Will vactor sewage discharging upstream of spill and try to recover it.
Crew vactored spill. Used approximate 100 gallons of flush water to clean area. Flush water was vactored along with spill and returned to sewer system.

Operator on site investigating cause to determine course of action

Crew is currently on site ascertaining the effects of the spill.

City contracted restoration cleanup company to sanitize and repair sewage damage.

Unable to clean up spill. Spill is currently discharging to Santa Fe Channel through an engineered overflow weir.

Unable to clean up spill due to severe storm

Unable to clean up spill due to significant storm event.

Unable to clean up spill at this time due to severe storm event.

Unable to clean up spill due to severe storms.

Unable to clean up spill due to severity of storm.

Unable to clean up spill due to storm.

Cut root intrusion out of sewer pipe. Recommend adding sewer line to CIP list.

Cleaned out roots and washed down area. Beach area still closed from storm event/spills from 03/14/2012.

Due to severe storm, unable to clean up/mitigate spill.

Public Works crew noticed clean-out debris and called Wastewater department. Resident was not home. Neighbor reported spill.

see attachment

Spill discharged into storm drain pump station. Crew checked if pump station had been operating at the time of the spill. It was not.

Incident occurred on 10/14/12. City was not notified of incident until 10/15/12. Resident stated that he did not know who reported spill.

Unable to contain or clean-up spill to constant rain and storms.

Unable to clean-out due to severe storm conditions.

Unable to clean-up spill due to severe storm and flowing out engineered overflow weir

Unable to contain or clean-up spill due to severe storm.

Unable to provide clean-up due to severe storm

Unrecoverable due to storm surge

Crew arrived on site and cleared blockage, storm drain is located approximately 15 ft. from incident. Unable to recover spill.
Large volume spilled. NO storm drains in nearby area. All of spill was recovered and returned to the sanitary sewer. Area is being monitored.
CIP project underway for excess storage capacity.

3/26/2011 0:00
3/26/2011 0:00

7/16/2011 21:20

8/19/2011 18:30
8/26/2011 9:00

11/28/2011 12:20
12/8/2011 18:20

1/14/2012 23:30
1/23/2012 11:30
1/23/2012 19:00
2/2/2012 9:55

3/15/2012 0:59
3/15/2012 5:15
3/14/2012 22:00
3/14/2012 21:05
3/15/2012 3:15
3/14/2012 21:45
3/15/2012 1:05
3/15/2012 18:45
3/16/2012 11:00
3/27/2012 22:57
4/12/2012 0:00

6/11/2012 10:00

8/13/2012 16:00

11/30/2012 10:15
12/1/2012 14:00
12/2/2012 15:35
12/2/2012 13:15
12/2/2012 13:18
12/2/2012 14:00
12/2/2012 16:45
12/3/2012 10:30
12/4/2012 9:30

12/23/2012 17:26

Adjusted schedule/method of preventive maintenance
Other (specify below)

Added sewer to preventive maintenance program

Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance
Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance;Other (specify b

Adjusted schedule/method of preventive maintenance
Plan rehabilitation or replacement of sewer

Adjusted schedule/method of preventive maintenance
Added sewer to preventive maintenance program
Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance
Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance

Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Added sewer to preventive maintenance program;Other (specify below)
Adjusted schedule/method of preventive maintenance
Other (specify below)
Added sewer to preventive maintenance program
Plan rehabilitation or replacement of sewer;Other (specify below)
Plan rehabilitation or replacement of sewer
Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance

Other (specify below)

Added sewer to preventive maintenance program

Other (specify below)
Added sewer to preventive maintenance program;Plan rehabilitation or replacement of sewer
Added sewer to preventive maintenance program;Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Added sewer to preventive maintenance program;Plan rehabilitation or replacement of sewer
Other (specify below)
Added sewer to preventive maintenance program;Repaired sewer;Other (specify below)
Added sewer to preventive maintenance program;Other (specify below)

Other (specify below)

Observed discharge

Will video sewer line to determine if repairs are needed.

Will put this segment on watch list of lines for potential grease issues.

Will meet with other management staff to determine location of lateral line replacement. Please see attached report for ir

See attached report.

Will investigate cause by televising line as soon as possible

Will investigate cause once storm has subsided.

Will investigate cause once storm subsides.

Investigation regarding damage/cause will need to be conducted.

Due to storm, spill was diluted. Unable to determine exactly the amount of sewage spilled. When crew arrived, they man

Cleaned surface area; curb & gutter.

Will CCTV line as soon as storm subsides

Unable to contain or clean-up due to storm surge.

Will CCTV line to determine potential cause for root intrusion

Will CCTV line to determine cause for blockage.

CIP project underway.

Yes
Yes

Yes

Yes
Yes

Yes
Yes

Yes
Yes
Yes
Yes

Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes

No

Yes

No
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes

Yes

N/A

N/A

N/A Did not discharge to receiving water.

None. Sewage soaked into beach area. Beach closed.

None visual

Not applicable.

N/A

N/A

No physical impacts reported. Will sample for coliform.

Not applicable.

Not applicable

N/A

Not applicable

N/A

N/A

No
No

No
Yes
No

No
Yes

No
No
No
No

Yes
No
No
Yes
No
Yes
Yes
Yes
Yes
No
Yes

No

No

No
No
No
No
No
No
No
No
No

No

N/A
N/A
N/A Did not discharge to receiving water.

Kellar Beach, Richmond, ca
None
None.

N/A

None. Not able to determine at this time.
No beach impacted
Not applicable

N/A

None. Spill was completely contained.
N/A

None. Boat Ramp Rd has public access for Kayaking. Will post health warning signs.
None
None
None

Possibly Keller Beach. East Bay Regional Parks will post beach closure signs.
Keller Beach
None
n/a
N/A

Not applicable

N/A
Not applicable
Not applicable
None
Keller Beach - warning signs will be posted as soon as storm subsides. No public access expected due to nature of severe weather.
N/A
NA
NA
Not applicable

N/A
(potentially) Keller Beach. Road to beach area closed due to heavy storms.

San Francisco Bay
Santa Fe Channel
Not applicable
None
N/A Did not discharge to receiving water.
None
Not applicable
None
San Francisco Bay
San Francisco Bay
None.
None
N/A
None
Potentially San Francisco Bay.
Santa Fe Channel and San Francisco Bay
Not applicable. Spill did not reach waters of the state.
San Francisco Bay
Meeker Slough
San Pablo Bay
None. Spill was completely contained.
None
none
San Francisco Bay
San Francisco Bay
San Francisco Bay
San Francisco Bay
San Pablo Bay
San Francisco and (perhaps) San Pablo Bay
San Pablo Bay
San Francisco Bay
San Francisco Bay
Santa Fe Channel and San Francisco Bay
n/a
N/A. Spill did not discharge to storm drain system.
N/A
San Francisco Bay
Not applicable
Not applicable
Santa Fe Channel
Not applicable
None - did not discharge to waters of the state.
None
N/A
San Pablo Bay
San Pablo Bay
San Pablo Bay
Santa Fe Channel and San Francisco Bay
Santa Fe Channel/San Francisco Bay
Santa Fe Channel/San Francisco Bay
San Francisco Bay
San Francisco Bay
San Francisco Bay
None
Santa Fe Channel and San Francisco Bay

No water quality samples taken
No water quality samples taken

Not applicable to this spill

Not applicable to this spill
No water quality samples taken;Not applicable to this spill

No water quality samples taken
Biological indicator(s) - specify below

No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken;Not applicable to this spill

Biological indicator(s) - specify below
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
Other (specify below)
Other chemical indicator(s) - specify below
No water quality samples taken
No water quality samples taken;Not applicable to this spill

Not applicable to this spill

Not applicable to this spill

No water quality samples taken;Not applicable to this spill
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken

Other (specify below)

Sewage soaked into sand unable to sample.

total coliform and fecal coliform

Not sampled due to inability to reach area.

Coliform and fecal coliform

Unable to sample due to storms.

Unable to sample.

Unable to sample due to safety issues at location of spill. Will investigate to determine if able to sample at public beach a
East Bay Regional Parks will sample for biological test.

Spill occurred greater than one mile inland

Unable to take samples due to personnel safety issues (severe storm hazards - impossible to gain access safely).

Samples will not be taken due to severity of storm. If samples are taken at spill location, they will exceed the health limit 1

No water quality samples taken
No water quality samples taken

None of the above

No water quality samples taken
No water quality samples taken;Not applicable to this spill

No water quality samples taken
County Health Agency;Regional Water Quality Control Board

No water quality samples taken
No water quality samples taken
Not applicable to this spill
No water quality samples taken;Not applicable to this spill

County Health Agency
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
None of the above
None of the above
No water quality samples taken
No water quality samples taken;Not applicable to this spill

Not applicable to this spill

Not applicable to this spill

No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken

No water quality samples taken

N/A

East Bay Regional Parks will conduct sampling and report to City of Richmond and County Health.
Pending.

111959	3/26/2011 9:45
111961	3/26/2011 9:45
114245	7/16/2011 20:01
114947	8/19/2011 17:35
115060	8/26/2011 9:10
117036	11/28/2011 12:10
117265	12/8/2011 10:20
120264	1/14/2012 22:50
120461	1/23/2012 10:45
120487	1/23/2012 17:40
120667	2/2/2012 8:30
121458	3/14/2012 6:47
121465	3/12/2012 9:35
121466	3/14/2012 9:40
121470	3/14/2012 9:58
121476	3/14/2012 10:33
121486	3/14/2012 13:25
121488	3/14/2012 14:20
121527	3/15/2012 15:50
121541	3/16/2012 9:28
12186	3/27/2012 22:10
122179	4/12/2012 21:10
123393	6/11/2012 10:20
124770	8/13/2012 15:55
127241	11/30/2012 10:20
127278	12/1/2012 11:32
127278	12/2/2012 9:41
127298	12/2/2012 9:41
127298	12/2/2012 9:42
127298	12/2/2012 9:42
127318	12/2/2012 13:35
127365	12/3/2012 10:40
127309	12/4/2012 9:35
127842	12/23/2012 14:16

2SSO10170	Active	789283 Mary Phelps	Certified
2SSO10170	Active	789285 Mary Phelps	Certified
2SSO10170	Active	789286 Mary Phelps	Certified
2SSO10170	Active	789287 Mary Phelps	Certified
2SSO10170	Active	789288 Mary Phelps	Certified
2SSO10170	Active	789391 Mary Phelps	Certified
2SSO10170	Active	789444 Mary Phelps	Certified
2SSO10170	Active	789596 Mary Phelps	Certified
2SSO10170	Active	790028 Mary Phelps	Certified
2SSO10170	Active	790381 Mary Phelps	Certified
2SSO10170	Active	790816 Mary Phelps	Certified
2SSO10170	Active	790829 Mary Phelps	Certified
2SSO10170	Active	790830 Mary Phelps	Certified
2SSO10170	Active	790927 Mary Phelps	Certified
2SSO10170	Active	790968 Mary Phelps	Certified
2SSO10170	Active	790969 Mary Phelps	Certified
2SSO10170	Active	791505 Mary Phelps	Certified
2SSO10170	Active	791753 Mary Phelps	Certified
2SSO10170	Active	791818 Mary Phelps	Certified
2SSO10170	Active	793249 Mary Phelps	Certified
2SSO10170	Active	793400 Mary Phelps	Certified
2SSO10170	Active	794335 Mary Phelps	Certified
2SSO10170	Active	794336 Mary Phelps	Certified
2SSO10170	Active	794500 Mary Phelps	Certified
2SSO10170	Active	796158 Mary Phelps	Certified
2SSO10170	Active	796162 Mary Phelps	Certified
2SSO10170	Active	796179 Mary Phelps	Certified
2SSO10170	Active	798390 Mary Phelps	Certified
2SSO10170	Active	798391 Mary Phelps	Certified
2SSO10170	Active	800110 Mary Phelps	Certified
2SSO10170	Active	800461	Submit Draft
2SSO10170	Active	800557	Submit Draft
2SSO10170	Active	801104	Submit Draft
2SSO10170	Active	801105	Submit Draft
2SSO10171	Active	652777 Steven S. Beall, P.E.	Certified
2SSO10171	Active	655950 Steven S. Beall	Certified
2SSO10171	Active	656413 Steven S Beall	Certified
2SSO10171	Active	708593 Steven S. Beall	Certified
2SSO10171	Active	709495 Steven S. Beall	Certified
2SSO10171	Active	710553 Steven S. Beall	Certified
2SSO10171	Active	710794 Steven S. Beall	Certified
2SSO10171	Active	710798 Steven S. Beall	Certified
2SSO10171	Active	710799 Steven S. Beall	Certified
2SSO10171	Active	710803 Steven S. Beall	Certified
2SSO10171	Active	710806 Steven S. Beall	Certified
2SSO10171	Active	712207 Steven S. Beall	Certified
2SSO10171	Active	727964 Steven S. Beall	Certified
2SSO10171	Active	729141 Steven S. Beall	Certified
2SSO10171	Active	734155 Steven S. Beall	Certified
2SSO10171	Active	735069 Steven S. Beall	Certified
2SSO10171	Active	737332 Steven S. Beall	Certified
2SSO10171	Active	739429 Steven S. Beall	Certified
2SSO10171	Active	745540 Steven S. Beall	Certified
2SSO10171	Active	745542 Steven S. Beall	Certified
2SSO10171	Active	745543 Steven S Beall	Certified

[illegible][illegible]

Richmond, CA	411065
Richmond, CA	386479
Richmond, CA	701892
Richmond, CA	450786
Richmond, CA	789688
Richmond, CA	773186
Richmond, CA	480141
Richmond, CA	800173
Richmond, CA	192148
Richmond, CA	624278
Richmond, CA	973848
Richmond, CA	177296
Richmond, CA	895312
Richmond, CA	617623
Richmond, CA	801779
Richmond, CA	889927
Richmond, CA	421153
Richmond, CA	155128
Richmond, CA	953655
Richmond, CA	644496
Richmond, CA	413184
Richmond, CA	364495
Richmond, CA	831330
Richmond, CA	794368
Richmond, CA	820170
Richmond, CA	396720
Richmond, CA	555215
Richmond, CA	337122
Richmond, CA	224417
Richmond, CA	223176

Rodeo Sanitary District	147793
Rodeo Sanitary District WPCP	727842
Rodeo Sanitary District	957188
Rodeo Sanitary District	344806
Rodeo Sanitary District	260770
Rodeo Sanitary District	782028
Rodeo	897080
Rodeo	729564
Rodeo	544092
Rodeo	943070
Rodeo	666017
Rodeo	770838
Rodeo Sanitary District	888226
Rodeo Sanitary District	729493
Rodeo Sanitary District	980858
Rodeo Sanitary District	998012
Rodeo Sanitary District	285723
Rodeo Sanitary District	885686
Rodeo Sanitary District	704519
Rodeo Sanitary District	381530
Rodeo Sanitary District	229252

23-Dec-12	12/23/2012	7-Jan-13	1/7/2013
23-Dec-12	12/23/2012	7-Jan-13	1/7/2013
23-Dec-12	1/7/2013	7-Jan-13	1/7/2013
23-Dec-12	1/7/2013	7-Jan-13	1/7/2013
23-Dec-12	1/7/2013	7-Jan-13	3/14/2013
25-Dec-12	1/9/2013	9-Jan-13	1/9/2013
26-Dec-12	1/9/2013	9-Jan-13	1/9/2013
2-Jan-13	1/2/2013	7-Feb-13	2/7/2013
9-Jan-13	1/9/2013	29-Jan-13	1/29/2013
16-Jan-13	1/16/2013	28-Feb-13	2/28/2013
25-Jan-13	2/8/2013	8-Feb-13	2/8/2013
28-Jan-13	2/11/2013	11-Feb-13	2/11/2013
28-Jan-13	2/11/2013	11-Feb-13	2/11/2013
29-Jan-13	2/11/2013	11-Feb-13	2/11/2013
30-Jan-13	1/30/2013	11-Feb-13	2/11/2013
30-Jan-13	2/11/2013	22-Feb-13	2/22/2013
11-Feb-13	2/22/2013	22-Feb-13	2/22/2013
18-Feb-13	2/18/2013	4-Mar-13	3/4/2013
19-Feb-13	3/4/2013	4-Mar-13	3/4/2013
8-Apr-13	5/21/2013	31-May-13	5/31/2013
16-Apr-13	4/16/2013	31-May-13	5/31/2013
21-May-13	5/21/2013	31-May-13	5/31/2013
21-May-13	5/31/2013	31-May-13	5/31/2013
25-May-13	5/31/2013	31-May-13	5/31/2013
26-Jun-13	6/26/2013	28-Jun-13	6/28/2013
26-Jun-13	6/26/2013	28-Jun-13	6/28/2013
26-Jun-13	6/26/2013	28-Jun-13	6/28/2013
30-Aug-13	9/26/2013	26-Sep-13	9/26/2013
30-Aug-13	9/26/2013	26-Sep-13	9/26/2013
22-Oct-13	11/1/2013	1-Nov-13	11/1/2013
1-Nov-13	11/1/2013		
6-Nov-13	11/6/2013		
25-Nov-13	11/25/2013		
25-Nov-13	11/25/2013		
25-Jun-07		2-Jul-07	7/2/2007
17-Aug-07		17-Aug-07	8/17/2007
28-Aug-07		6-Dec-10	12/6/2010
3-Dec-07		12-Dec-07	12/6/2010
14-Dec-07		18-Dec-07	12/18/2007
31-Dec-07		31-Dec-07	12/31/2007
7-Jan-08		1-Feb-08	2/1/2008
7-Jan-08		1-Feb-08	2/1/2008
7-Jan-08		1-Feb-08	2/1/2008
7-Jan-08		1-Feb-08	2/1/2008
7-Jan-08		1-Feb-08	2/1/2008
1-Feb-08		1-Feb-08	2/1/2008
16-Oct-08		16-Oct-08	10/16/2008
11-Nov-08		11-Nov-08	11/11/2008
26-Feb-09		26-Feb-09	2/26/2009
17-Mar-09		12-May-09	5/12/2009
12-May-09		12-May-09	5/12/2009
17-Jun-09		18-Jun-09	6/18/2009
12-Oct-09		12-Oct-09	11/4/2009
12-Oct-09		12-Oct-09	11/4/2009
12-Oct-09		2-Nov-09	11/2/2009

Category 1		2400	0
Category 1		6000	0
Category 1		7298	0
Category 1		3936	0
Category 1		5330	0
Category 1		1293	0
Category 1		465	50
Category 3		2	2
Category 1		1500	10
Category 1		150	150
Category 1		400	300
Category 1		150	100
Category 1		270	70
Category 3		20	20
Category 3		60	0
Category 3		25	25
Category 1		36000	8000
Category 1		240	20
Category 1		80	45
Category 3		16	16
Category 3		15	15
Category 3		3	3
Category 3		40	40
Category 1		120	20
Category 3		35	35
Category 3		3	3
Category 3		15	15
Category 3	0	20	20
Category 3	0	90	90
Category 2	14000	14000	14000
Category 3	20	20	20
Category 2	43500	43500	5000
Category 3	10	10	10
Category 3	3	3	3
Category 3		2	2
Category 3		25	0
Category 3		20	20
Category 3		25	25
Category 1		750	50
Category 1		225	150
Category 1		3150	0
Category 1		44250	0
Category 1		22125	0
Category 1		1200	0
Category 1		1200	0
Category 1		150	0
Category 3		3	3
Category 1		300	100
Category 3		1	0
Category 3		100	100
Category 3		1	1
Category 3		875	875
Category 1		50	25
Category 3		30	30
Category 3		125	125

2400	Yes	Yes
6000	Yes	Yes
7298	Yes	Yes
3936	Yes	Yes
5330	Yes	Yes
1293	Yes	Yes
405	No	Yes
0	No	No
1490	Yes	Yes
150	No	Yes
100	Yes	Yes
50	No	Yes
200	No	Yes
0	No	No
0	No	No
0	No	No
28000	No	Yes
220	No	Yes
35	No	Yes
0	No	No
0	No	No
0	No	No
0	No	Yes
100	Yes	Yes
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
700	Yes	No
75	Yes	Yes
3150	Yes	Yes
44250	Yes	Yes
22125	Yes	Yes
1200	Yes	Yes
1200	Yes	Yes
150	Yes	Yes
0	No	No
200	No	Yes
0	No	No
0	No	No
0	No	No
0	No	Yes
25	No	Yes
0	No	No
0	No	No

No
No
No
No
No
No
No
Not Applicable - Spill did not reach a separate storm drainpipe
No
Yes
Yes
No
No
Not Applicable - Spill did not reach a separate storm drainpipe
Not Applicable - Spill did not reach a separate storm drainpipe
Not Applicable - Spill did not reach a separate storm drainpipe
No
Yes
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Not Applicable - Spill did not reach a separate storm drainpipe
Not Applicable - Spill did not reach a separate storm drainpipe
Not Applicable - Spill did not reach a separate storm drainpipe
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Not Applicable - Spill did not reach a separate storm drainpipe
Not Applicable - Spill did not reach a separate storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
No
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Not Applicable - Spill did not reach storm drainpipe
No
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Yes
No
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe

2300 Cutting Blvd (north)
2300 Cutting Blvd (South)
1300 Dunn Ave
13th & Rheem
1300 Costa Ave
1300 Costa Ave
Ventura Ave. and Clinton Ave.
755 Western Dr
3500 Bissell Ave
2000 Hoffman Blvd
631 18th Street
800 Nevin Ave
4400 Macdonald Ave
338 Nevin Ave
452 Mount Street
616 Key Blvd.
3201 Leona Ave
915 8th st
901 Nevin Ave
16 16th Street
21st Street and Chanslor Ave
41 Terrace Ave
2600 Spinnaker Way
321 Tunnel Ave
336 Washington Ave
San Pablo Ave & Macdonald Ave (old Safeway Parking Lot)
16 16th Street
Richmond Parkway & National Court
West Chanslor Ave & Chanslor Court
151 Santa Fe Ave
1429 26th Street
317 Western Dr
20 Belvedere Ave. & Crest Ave.
535 Marina Bay Parkway & Potrero Avenue
Rodeo Sanitary District
2nd Ave and Parker Ave
Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary District
Barnes Way and County Property
Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary District
401 Sonoma Avenue Basement

37.92489	-122.34742 Contra Costa
37.92515	-122.34763 Contra Costa
37.94868	-122.35692 Contra Costa
37.94957	-122.35716 Contra Costa
37.95005	-122.35674 Contra Costa
37.95005	-122.35674 Contra Costa
37.94097	-122.32545 Contra Costa
37.92919	-122.39463 Contra Costa
37.9332	-122.33602 Contra Costa
37.92237	-122.35055 Contra Costa
37.9411	-122.35275 Contra Costa
37.93682	-122.36232 Contra Costa
37.93289	-122.32817 Contra Costa
37.93659	-122.36392 Contra Costa
37.93573	-122.32104 Contra Costa
37.93876	-122.32445 Contra Costa
37.93263	-122.33862 Contra Costa
37.9465	-122.362 Contra Costa
37.93758	-122.36097 Contra Costa
37.93173	-122.35396 Contra Costa
37.93195	-122.3495 Contra Costa
37.92478	-122.38738 Contra Costa
37.91269	-122.34539 Contra Costa
37.92388	-122.3855 Contra Costa
37.92517	-122.38774 Contra Costa
37.93234	-122.32348 Contra Costa
37.93173	-122.35396 Contra Costa
37.92829	-122.37821 Contra Costa
37.93239	-122.36965 Contra Costa
37.92685	-122.38631 Contra Costa
37.95387	-122.34377 Contra Costa
37.92367	-122.39027 Contra Costa
37.921654	-122.386452 Contra Costa
37.924429	-122.347964 Contra Costa
38.031111	122.261944 Contra Costa
38.035919	122.267783 Contra Costa
38.036881	-122.263908 Contra Costa
38.03904	-122.26193 Contra Costa
38.018706	122.256542 Contra Costa
38.029508	122.258711 Contra Costa
38.035175	122.265053 Contra Costa
38.035258	122.265483 Contra Costa
38.035239	122.26585 Contra Costa
38.036661	122.266553 Contra Costa
38.036472	122.266508 Contra Costa
38.035258	122.265483 Contra Costa
38.030136	122.264672 Contra Costa
38.037	122.263714 Contra Costa
38.029969	122.263744 Contra Costa
38.032383	-122.267956 Contra Costa
38.028878	-122.264042 Contra Costa
38.034817	-122.262053 Contra Costa
38.033153	-122.260172 Contra Costa
38.033153	-122.260172 Contra Costa
38.033153	-122.260172 Contra Costa

[illegible]

Manhole

Crack in street near main line.

manhole

Sewage running down alley way and flowing into storm drain

Manhole in the middle of baseball field

cleanout

manhole

Manhole near location.

Parking lot

Manhole

Basement of residential home

Back Yard

Manhole at intersection of 2nd Ave and PArker Ave

Manhole on View Point Blvd at Rodeo Creek.

Manhole 99

Manhole 99

Manhole 70 in the intersection of Mariposa Ave and Pinole Ave.

Sewage overflowed into the residents homes at 422 and 425 Rodeo Ave.

Toilet and Tub

Manhole in the intersection of 3rd Street and Suisun Avenue

Manhole in front of house

Basement of Home

1
1
2
2
2
1
1

Gravity sewer
Manhole
Gravity sewer;Manhole
Gravity sewer;Manhole
Manhole
Manhole;Other sewer system structure
Manhole
Other (specify)
Manhole
Gravity sewer;Manhole
Other sewer system structure
Manhole
Other sewer system structure
Other sewer system structure
Manhole
Manhole
Manhole
Manhole
Manhole
Other sewer system structure
Manhole
Manhole
Gravity sewer
Manhole
Manhole
Manhole
Manhole
Manhole
Gravity Mainline
Inside Building or Structure
Inside Building or Structure
Gravity Mainline
Gravity Mainline
Gravity Mainline
Other (specify)
Manhole
Building or structure
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Building or structure
Building or structure
Manhole
Manhole
Manhole
Building or structure

Clean-out @ 1300 Dunn Ave. Manhole @ 1300 Dunn Ave. Manhole @ 1300 Rheem Ave.

Crack in street - possibly buried clean-out

Sewage running down alley way and flowing into storm drain

Clean-out located in Resident's yard

Discharging from manhole at address

mainline clean-out

clean-out at side of house

Manhole in the middle of the baseball field near first base.

Manhole near Kaiser Hospital

cleanout

Manhole overflowing

Manhole overflowing

Basement of two separate buildings

Front yard and basement of residential home

Front yard in front of home and earthen dirt under broken pipe.

Back Yard. Sewer line runs through backyard. Lateral connection is in back yard.

Coming from Garage

Manhole 80

Manhole 100

Manhole 76

Manhole 77

During a routine hydroflushing of the line on 7th street, a pressure transient traveled up the private sewer lateral and bur

Separate storm drain;Street/curb and gutter;Surface water
Separate storm drain;Street/curb and gutter;Surface water
Street/curb and gutter;Surface water
Surface water
Separate storm drain;Street/curb and gutter;Surface water
Separate storm drain;Street/curb and gutter;Surface water
Separate storm drain;Street/curb and gutter
Street/curb and gutter
Street/curb and gutter;Surface water
Street/curb and gutter;Surface water
Separate storm drain;Street/curb and gutter;Surface water;Unpaved surface
Separate storm drain;Street/curb and gutter
Separate storm drain;Street/curb and gutter
Street/curb and gutter
Other (specify below)
Street/curb and gutter
Other paved surface;Separate storm drain;Street/curb and gutter;Unpaved surface
Unpaved surface
Other paved surface;Separate storm drain
Street/curb and gutter;Unpaved surface
Street/curb and gutter;Unpaved surface;Other (specify below)
Street/curb and gutter
Street/curb and gutter
Separate storm drain;Street/curb and gutter;Surface water
Street/curb and gutter
Other paved surface;Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Other (specify below)
Other (specify below)
Other (specify below)
Paved Surface
Paved Surface
Other (specify below)
Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Other (specify below)
Storm drain;Street/curb and gutter
Storm drain;Street/curb and gutter
Storm drain;Street/curb and gutter
Storm drain;Street/curb and gutter
Storm drain;Street/curb and gutter
Storm drain;Street/curb and gutter
Storm drain;Street/curb and gutter
Other paved surface
Storm drain;Street/curb and gutter
Unpaved surface
Building or structure
Building or structure
Storm drain;Street/curb and gutter
Other paved surface;Storm drain;Street/curb and gutter
Other paved surface;Street/curb and gutter
Building or structure

Sewage flowing from manhole into street.

Santa Fe Channel into Richmond Inner Harbor and eventually discharging into San Francisco Bay
Some sewage soaked into grass in resident's yard. The remainder entered a storm drain. Crew able to chase the storm d

Grass area of resident's home. Not able to recover volume on grass.
Sewage was in gutter when crew arrived but had not (yet) reached a storm drain.
Portions of sewage soaked into baseball field of middle school. Unable to determine the exact volume.
Spill was recovered. Earthen ditch downstream of spill was dry (see photos).
Spill discharged into storm drain. Due to recent rain (not storm) event, residual water was present in storm drain. Crew is
There was gravel toward end of street. Spill soaked into the location near the gravel, and did not discharge into the storm
The spill was contained in the gutter at the end of the street, but may have spilled onto portions of the greenbelt.

Parking Lot

Spill was completely contained and returned to sanitary sewer.

Basement of buildings
Front yard and basement of residential home
Earthen dirt under broken gravity pipe and in yard in front of home.

Back yard land. Area was cleaned and disinfected.

Rodeo Creek

12/23/2012 13:40	12/23/2012 14:40	12/23/2012 14:40	12/23/2012 15:40
12/23/2012 13:40	12/23/2012 14:40	12/23/2012 14:40	12/23/2012 15:40
12/23/2012 13:15	12/23/2012 14:45	12/23/2012 14:45	12/23/2012 19:00
12/23/2012 13:15	12/23/2012 14:50	12/23/2012 14:50	12/23/2012 17:56
12/23/2012 13:15	12/23/2012 14:50	12/23/2012 14:50	12/23/2012 19:00
12/25/2012 20:15	12/25/2012 20:15	12/25/2012 21:15	12/25/2012 22:30
12/26/2012 18:00	12/26/2012 18:14	12/26/2012 19:10	12/26/2012 19:35
12/27/2012 15:11	12/27/2012 15:11	12/27/2012 15:55	12/27/2012 16:00
1/7/2013 12:00	1/9/2013 15:00	1/9/2013 15:25	1/9/2013 15:35
1/16/2013 8:45	1/16/2013 9:00	1/16/2013 9:45	1/16/2013 10:30
1/25/2013 18:00	1/25/2013 20:05	1/25/2013 20:55	1/25/2013 22:10
1/28/2013 8:15	1/28/2013 8:55	1/28/2013 9:10	1/28/2013 9:30
1/28/2013 7:30	1/28/2013 8:40	1/28/2013 9:25	1/28/2013 9:45
1/29/2013 12:03	1/29/2013 12:10	1/29/2013 12:25	1/29/2013 12:35
1/17/2013 20:20	1/17/2013 20:30	1/17/2013 21:20	1/17/2013 21:20
1/24/2013 15:50	1/24/2013 16:00	1/24/2013 16:45	1/24/2013 16:45
2/7/2013 14:00	2/11/2013 11:35	2/11/2013 11:50	2/11/2013 11:55
2/17/2013 17:00	2/17/2013 19:53	2/17/2013 20:30	2/17/2013 20:45
2/19/2013 15:15	2/19/2013 15:40	2/19/2013 16:00	2/19/2013 16:10
4/8/2013 13:10	4/8/2013 13:15	4/8/2013 13:55	4/8/2013 14:05
4/11/2013 11:20	4/11/2013 11:45	4/11/2013 12:05	4/11/2013 12:26
4/21/2013 10:00	4/22/2013 11:10	4/22/2013 11:55	4/21/2013 10:05
5/6/2013 8:45	5/6/2013 9:15	5/6/2013 9:40	5/6/2013 10:15
5/25/2013 18:45	5/25/2013 18:45	5/25/2013 18:45	5/25/2013 18:50
5/3/2013 8:45	5/3/2013 9:15	5/3/2013 9:30	5/3/2013 10:45
5/23/2013 11:00	5/23/2013 11:25	5/23/2013 11:35	5/23/2013 11:35
5/21/2013 11:00	5/21/2013 11:05	5/21/2013 11:36	5/21/2013 12:05
7/24/2013 16:25	7/24/2013 16:25	7/24/2013 16:35	7/24/2013 16:35
7/16/2013 16:15	7/16/2013 16:26	7/16/2013 16:50	7/16/2013 17:10
10/21/2013 13:00	10/22/2013 8:55	10/22/2013 9:15	10/22/2013 10:20
10/27/2013 13:35	10/27/2013 13:55	10/27/2013 14:30	10/27/2013 14:30
10/5/2013 14:00	11/5/2013 14:48	11/5/2013 15:15	11/20/2013 0:00
11/24/2013 10:03	11/24/2013 10:05	11/24/2013 11:00	11/24/2013 11:45
11/13/2013 10:00	11/13/2013 10:33	11/13/2013 10:33	11/13/2013 10:55
6/14/2007 0:00	6/14/2007 15:00	6/14/2007 15:15	6/14/2007 15:30
8/15/2007 0:00	8/15/2007 9:00	8/15/2007 9:05	8/15/2007 9:15
8/15/2007 0:00	8/15/2007 17:00	8/15/2007 17:15	8/15/2007 17:20
11/30/2007 0:00	11/30/2007 16:00	11/30/2007 16:15	11/30/2007 16:30
12/12/2007 0:00	12/12/2007 6:15	12/12/2007 6:45	12/12/2007 7:00
12/30/2007 0:00	12/30/2007 13:00	12/30/2007 13:15	12/30/2007 13:45
1/4/2008 0:00	1/4/2008 10:15	1/4/2008 10:15	1/4/2008 18:00
1/4/2008 0:00	1/4/2008 11:30	1/4/2008 11:30	1/4/2008 18:00
1/4/2008 0:00	1/4/2008 11:30	1/4/2008 11:30	1/4/2008 18:00
1/4/2008 0:00	1/4/2008 15:00	1/4/2008 15:00	1/4/2008 18:00
1/4/2008 0:00	1/4/2008 14:00	1/4/2008 14:00	1/4/2008 18:00
1/25/2008 0:00	1/25/2008 16:30	1/25/2008 16:30	1/25/2008 17:05
10/13/2008 0:00	10/13/2008 0:00	10/13/2008 0:00	10/13/2008 0:00
11/9/2008 0:00	11/9/2008 14:30	11/9/2008 15:00	11/9/2008 15:30
2/20/2009 0:00	2/20/2009 9:00	2/20/2009 9:05	2/20/2009 9:10
3/16/2009 0:00	3/16/2009 16:30	3/16/2009 16:35	3/16/2009 17:00
5/1/2009 0:00	5/1/2009 15:00	5/1/2009 15:00	5/1/2009 15:00
6/13/2009 0:00	6/13/2009 9:45	6/13/2009 9:50	6/13/2009 10:20
10/9/2009 0:00	10/9/2009 9:32	10/9/2009 9:40	10/9/2009 9:45
10/9/2009 0:00	10/9/2009 15:30	10/9/2009 15:35	10/9/2009 15:40
10/9/2009 0:00	10/10/2009 13:25	10/10/2009 13:30	10/9/2009 15:45

Rainfall exceeded design (Separate CS Only)
Rainfall exceeded design (Separate CS Only)
Rainfall exceeded design (Separate CS Only)
Rainfall exceeded design (Separate CS Only)
Rainfall exceeded design (Separate CS Only)
Rainfall exceeded design (Separate CS Only)
Grease deposition (FOG)
Root intrusion
Grease deposition (FOG)
Debris-General
Pipe structural problem/failure
Grease deposition (FOG)
Pipe structural problem/failure
Debris-Rags
Pipe structural problem/failure
Other (specify below)
Other (specify below)
Other (specify below)
Debris-Rags
Debris-Rags
Grease deposition (FOG)
Debris-Rags
Other (specify below)
Other (specify below)
Debris-General
Grease deposition (FOG)
Grease deposition (FOG)
Other (specify below)
Root Intrusion
Root Intrusion
Pipe Structural Problem/Failure
Pipe Structural Problem/Failure
Root Intrusion
Grease Deposition (FOG)
Pipe structural problem/failure
Debris
Other (specify below)
Debris-General
Root intrusion
Root intrusion
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Other (specify below)
Grease deposition (FOG)
Debris-General
Pipe structural problem/failure
Other (specify below)
Root intrusion
Debris-General
Debris-General
Debris-General

Severe storms.

Teacher noticed discharge on 01/07/2013, but was unsure what it was. After seeing the discharge again, sent an e-mail to

3 ft. void in mainline pipe was the cause of SSO. The pipe was repaired

Broken pipe.

Rags and Grease

Broken pieces of pipe caused by roots

Cause is currently being investigated. Determine cause to be broken pipe. Will repair no later than 02/25/2013. Manhole 1

See comments on attached report. School district initially thought water on field was due to broken EBMUD line.

Private contractor called out to clear resident's lateral and got their snake stuck in the main line causing blockage.

Rags in mainline. Suspect coming from Kaiser Hospital.

Rags and Heavy Grease

Roots and Rags

Diaper

Operator hit mainline blockage resulting in manhole overflowing several feet from initial call-out. Operators were on site to

Heavy Grease, rags collected from 17 segments upstream of incident location.

Plastic Bag and a 4 inch plug. The blockage was a 160 ft. downstream of the manhole.

Cause still under investigation. After full investigation, cause was determined to be roots.

Severe roots in main line caused back-up in abandoned building resulting in second back-up in building next to abandoned

Major offset 200' up from the downstream of Emeric.

Unknown

Diapers, Aluminum Cans, Trash

Blockage unknown

Determined to be a failed section of manhole. Piece of concrete lodged itself between the old brick manhole and the fiber
During a routine hydroflushing of the line on 7th street, a pressure transient traveled up the private sewer lateral and burst

[illegible]

Gravity Mainline
Gravity Mainline
Gravity Mainline
Gravity Mainline
Gravity Mainline

Main
Main

Main

Clean-out on Dunn as well as manhole. Two locations in close proximity to each other.

Main sewer line on 13th Street (multiple spill appearance points).

Crew responded to odor complaint and potential lateral line issue. Procedure is to flush main line. In doing so, operator hi

t blockage in main line sever

No
No
No
No
No
No
No

8
8
6

12
12

6 vcp
6 vcp
6 clay

30
50

75
75

70
70
75

Unable to clean-up spill due to severe storm. Unable to clean up spill due to severity of storm. Estimated start time of discharge based on time the overflow weirs began to overflow.
Unable to clean up spill due to severity of storm
Unable to clean up spill due to severity of storm
Unable to clean up spill due to severity of storms. Estimated start time of discharge based on time the overflow weirs began to overflow.
Unable to clean up spill due to severe storms
Crew not able to contain entire quantity of spill due to some dilution in the storm system from previous day's rain event. V

Reported to site and abated spill. After clearing blockage, it was reported that it was Grease in the line.

See attached report.

Not all of spill was recovered. Crew attempting to chase the spill downstream of the storm drain, flush with dechlorinated water.
Chased spill downstream of location to determine extent of spill that discharged to waters of the state. Not able to determine extent of spill.
Will increase maintenance of line due to sag. Line is not scheduled for CIP. Only issue is sag. Finished clean-up at 13:10
Crew arrived on site to determine effects of spill. Spill was contained to grass/yard of resident. Not able to recover any of spill.
Will CCTV at a later date to determine reason for spill. Determined the line needs to be repaired. Will repair by 02/25/2014
Placed caution tape around school yard, washed down basketball court and flooded baseball field with dechlorinated water

Will meet with Kaiser staff to ensure they are aware of problems with rags in line.

Spill clean-up completed on 04/11/2013 at 13:05

Crew was not notified of incident until the following day. When crew arrived on site there was little evidence of any sewer spill.

Flushed area with several hundred gallons of dechlorinated water to dilute environmental impacts.

Spill is on-going. Working on containment and repairs

Will remove the affected section of pipe and replace to reduce future root intrusion. Area does receive tri-annual chemical treatment.
During week of January 7, 2008, hired company to clean and inspect all down stream sewer line to identify any capacity issues.
During week of January 7, 2008, hired company to clean and inspect all down stream sewer line to identify any capacity issues.
During week of January 7, 2008, hired company to clean and inspect all down stream sewer line to identify any capacity issues.
During week of January 7, 2008, hired company to clean and inspect all down stream sewer line to identify any capacity issues.
During week of January 7, 2008, hired company to clean and inspect all down stream sewer line to identify any capacity issues.
Please see SSO events 710794, 710798, 710799, 710803, 710806 for prior events

District installed new manhole upstream of spill site. This allowed the District to CCTV the entire section of sewer line. T

Investigations have determined that a failed manhole upstream from the affected manhole was responsible for the debris.
Can not write in field below entitled Overall Spill Description . Will be entered here... Home owner notified the District that

12/23/2012 15:40
12/23/2012 15:40
12/23/2012 19:00
12/23/2012 17:56
12/23/2012 19:00
12/25/2012 22:30
12/26/2012 19:30

1/9/2013 15:50

1/25/2013 23:15
1/28/2013 10:00
1/28/2013 10:15

2/11/2013 14:00

2/19/2013 16:40

5/25/2013 20:30

10/22/2013 11:00

11/21/2013 0:00

12/14/2007 12:00

12/30/2007 13:45

2/1/2008 0:00

2/1/2008 0:00

2/1/2008 0:00

2/1/2008 0:00

2/1/2008 0:00

2/1/2008 0:00

11/9/2008 15:30

10/9/2009 10:00

Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance;Plan rehabilitatic
Added sewer to preventive maintenance program;Plan rehabilitation or replacement of sewer
Added sewer to preventive maintenance program;Plan rehabilitation or replacement of sewer
Added sewer to preventive maintenance program;Plan rehabilitation or replacement of sewer
Added sewer to preventive maintenance program;Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Added sewer to preventive maintenance program;Other (specify below)

Other (specify below)

Plan rehabilitation or replacement of sewer;Repaired sewer;Other (specify below)
Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance;Other (specify b
Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance;Enforcement acti

Other (specify below)

Other (specify below)

Other (specify below)

Other (specify below)

Other (specify below)

Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance;Plan rehabilitatic
Other (specify below)

Other (specify below)

Will distribute Public outreach material for FOG.

City will conduct public outreach and potential enforcement for FOG related activities.

Replaced defective portion of pipe (main cause of incident). Replaced on 02/01/2013..

Will work with local businesses to determine FOG activities occurring in the area.

Inspected each potential FOG business in the area. Also provided educational materials to residents and businesses regarding FOG.

Removed rain guard from sewer line. (see attached photos). Will also investigate as to how this could occur without the guard.

Potential enforcement with Commercial facility (hospital) due to rags coming from location.

Possible review operator procedures.

Under investigation to determine if further work is necessary.

Scheduling repair/replacement of sewer pipe

During week of January 7, 2008, hired company to clean and inspect all down stream sewer line to identify any capacity issues.
During week of January 7, 2008, hired company to clean and inspect all down stream sewer line to identify any capacity issues.
During week of January 7, 2008, hired company to clean and inspect all down stream sewer line to identify any capacity issues.
During week of January 7, 2008, hired company to clean and inspect all down stream sewer line to identify any capacity issues.
During week of January 7, 2008, hired company to clean and inspect all down stream sewer line to identify any capacity issues.
see attachments

Will CCTV and inspect to determine if there is a more serious problem.

Investigate why debris in manhole

Yes
Yes
Yes
Yes
Yes
Yes
Yes

No

Yes
Yes
Yes

Yes

Yes

No

Yes

Yes

Yes
No
Yes
Yes
Yes
Yes
Yes
Yes
Yes

Yes

Yes

N/A
N/A

Not applicable

Not applicable. Did not reach receiving water. Storm drain was blocked further down stream by BART construction project
Not applicable

N/A
Not applicable
Not applicable
None reported.

CCTV on 12/14 to ascertain condition of pipe

No
No
No
No
No
No
No

No

No
No
No

No

No

No

Yes
Yes
No
No
No
No
No
No

No

No

None

None

None

None

N/A

N/A

None

None

None

None

None

None. No waters of the state impacted

Not applicable

None

None

N/A

None

Not applicable

Possibly Keller Beach. May be too far north to be certain of known impact.

na

na

na

na

na

na

na

na

na

na

San Francisco Bay
San Francisco Bay
San Pablo Bay
San Pablo Bay
San Pablo Bay
San Pablo Bay
San Francisco Bay
N/A
San Francisco Bay
Sante Fe Channel, Richmond Inner Harbor and eventually San Francisco Bay
Not applicable.
Unknown at this time
Unknown
Not Applicable
N/A
Not applicable
None. No waters impacted. Spill evaporated from ditch.
None.
None known at this time.
None
N/A
Not applicable
Not applicable
San Francisco Bay
None

Rodeo Creek
Rodeo Creek. Department of fish an game was notified of the spill. Report # 07-8011
Rodeo Creek
Rodeo Creek
Rodeo Creek
Rodeo Creek
Rodeo Creek
Rodeo Creek

na

na

No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
Not applicable to this spill

No water quality samples taken

Not applicable to this spill
Not applicable to this spill
Not applicable to this spill

Not applicable to this spill

No water quality samples taken;Not applicable to this spill;Other (specify below)

No water quality samples taken

Not applicable to this spill
Not applicable to this spill
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken

No water quality samples taken

Not applicable to this spill

Unable to determine based on storm drain evidence how much (if any) discharged to waters of the state.

Not applicable. Spill did not reach waters of the state.

Not certain of waterway that may be impacted

No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
None of the above

Not applicable to this spill

Not applicable to this spill
Not applicable to this spill
Not applicable to this spill

Not applicable to this spill

No water quality samples taken

No water quality samples taken

Not applicable to this spill
Not applicable to this spill
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken

No water quality samples taken

None of the above

Not able to determine location to where potentially discharged. Chased all downstream storm drain pipes and all were dry

Not applicable

Not applicable

/ for indication of spill.

Base area calculation: Length x width x depth

127845	12/23/2012 14:45
127845	12/23/2012 14:45
127846	12/23/2012 15:15
127846	12/23/2012 15:15
127846	12/23/2012 15:15
127903	12/25/2012 21:51
127927	12/26/2012 19:26

130193	1/9/2013 15:50
130334	1/16/2013 10:15
130543	1/25/2013 21:58
130586	1/28/2013 9:40
130587	1/28/2013 9:45

130890	2/11/2013 12:35
131041	2/18/2013 11:40
131055	2/19/2013 16:43

133183	5/25/2013 20:18
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80979	2/1/2008 0:00
80981	2/1/2008 0:00
80982	2/1/2008 0:00
80983	2/1/2008 0:00
80984	2/1/2008 0:00
80985	2/1/2008 0:00

88108	11/9/2008 16:00
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92305	3/16/2009 19:00
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Mary Phelps, Inspector III	5106850820
Mary Phelps, Inspector III	5106850820
Mary Phelps, Source Control Inspector III	510685080
Wayne Madison	5105423547
Wayne Madison, Collection Supervisor	5105423247
Wayne Madison	5105423247
Wayne Madison	5105423247

2SSO10171	Active	745602 Steven S Beall	Certified
2SSO10171	Active	746417 Steven S Beall	Certified
2SSO10171	Active	746418 Steven S Beall	Certified
2SSO10171	Active	748511 Steven S. Beall	Certified
2SSO10171	Active	748518 Steven S. Beall	Certified
2SSO10171	Active	749374 Steven S. Beall	Certified
2SSO10171	Active	750659 Steven S. Beall	Certified
2SSO10171	Active	751748 Steven S. Beall	Certified
2SSO10171	Active	756542 Steven S. Beall	Certified
2SSO10171	Active	758790 Steven S Beall	Certified
2SSO10171	Active	762516 Steven S. Beall	Certified
2SSO10171	Active	764814 Steven S. Beall	Certified
2SSO10171	Active	764816 Steven S Beall	Certified
2SSO10171	Active	764817 Steven S. Beall	Certified
2SSO10171	Active	764818 Steven S Beall	Certified
2SSO10171	Active	764880 Steven S Beall	Certified
2SSO10171	Active	767645 Steven S. Beall	Certified
2SSO10171	Active	769022 Steven S. Beall	Certified
2SSO10171	Active	771283 Steven S Beall	Certified
2SSO10171	Active	771284 Steven S Beall	Certified
2SSO10171	Active	772216 Steven S. Beall	Certified
2SSO10171	Active	780320 Steven S. Beall	Certified
2SSO10171	Active	780844 Steven S. Beall	Certified
2SSO10171	Active	781194 Steven S. Beall	Certified
2SSO10171	Active	788645 Steven S. Beall	Certified
2SSO10171	Active	788659 Steven S. Beall	Certified
2SSO10171	Active	789525 Steven S. Beall	Certified
2SSO10171	Active	792610 Steven S. Beall	Certified
2SSO10171	Active	793397 Steven S. Beall	Certified
2SSO10171	Active	793734 Steven S. Beall	Certified
2SSO10171	Active	800875 Steven S. Beall	Certified
2SSO10172	Active	650259 Eric Smith	Certified
2SSO10172	Active	650562 Eric Smith	Certified
2SSO10172	Active	651005 Eric Smith	Certified
2SSO10172	Active	651472 Dennis Gavallos	Certified
2SSO10172	Active	651578 Eric Smith	Certified
2SSO10172	Active	652695 Dennis Gavallos	Certified
2SSO10172	Active	655452 Eric Smith	Certified
2SSO10172	Active	655953 Eric Smith	Certified
2SSO10172	Active	656299 Eric Smith	Certified
2SSO10172	Active	657623 Eric Smith	Certified
2SSO10172	Active	657760 Eric Smith	Certified
2SSO10172	Active	658045 Eric Smith	Certified
2SSO10172	Active	705260 Eric Smith	Certified
2SSO10172	Active	707332 Eric Smith	Certified
2SSO10172	Active	707473 Eric Smith	Certified
2SSO10172	Active	707544 Eric Smith	Certified
2SSO10172	Active	708000 Eric Smith	Certified
2SSO10172	Active	708010 Eric Smith	Certified
2SSO10172	Active	708071 Eric Smith	Certified
2SSO10172	Active	708136 Eric Smith	Certified
2SSO10172	Active	708673 Eric Smith	Certified
2SSO10172	Active	708935 Eric Smith	Certified
2SSO10172	Active	709028 E Smith	Certified
2SSO10172	Active	709641 Eric Smith	Certified

Engineer-Manager
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Rodeo Sanitary District	368198
Rodeo Sanitary District	165674
Rodeo Sanitary District	498285
Rodeo Sanitary District	144178
Rodeo Sanitary District	972189
Rodeo Sanitary District	241667
Rodeo Sanitary District	579955
Rodeo Sanitary District	431851
Rodeo	696112
Rodeo Sanitary District	166424
Rodeo Sanitary District	485682
Rodeo Sanitary District	124645
Rodeo Sanitary District	752607
Rodeo Sanitary District	878090
Rodeo Sanitary District	670820
Rodeo Sanitary District	145230
Rodeo Sanitary District	570519
Rodeo Sanitary District	138857
Rodeo Sanitary District	609092
Rodeo Sanitary District	769552
Rodeo Sanitary District	791431
Rodeo Sanitary District	635822
Rodeo Sanitary District	536080
Rodeo Sanitary District	273430
Rodeo Sanitary District	314670
Rodeo Sanitary District	427641
Rodeo Sanitary District	809277
Rodeo Sanitary District	883239
Rodeo Sanitary District	774524
Rodeo Sanitary District	319863
Rodeo Sanitary District	420041
San Rafael	736111
San Rafael	219187
San Rafael	291919
RVSD	214621
San Rafael	763254
RVSD	793226
San Rafael	574917
San Rafael	184371
San Rafael	416491
San Rafael	243503
San Rafael	301058
San Rafael	625095
San Rafael	431496
San Rafael	910081
San Rafael	430249
San Rafael	374674
San Rafael	544868
San Rafael	141291
San Rafael	903925
San Rafael	597378
San Rafael	228838
San Rafael	502099
San Rafael	751431
San Rafael	330480

14-Oct-09		14-Oct-09	10/14/2009
2-Nov-09		2-Nov-09	11/2/2009
2-Nov-09		2-Nov-09	11/2/2009
21-Jan-10		21-Jan-10	1/21/2010
21-Jan-10		22-Jan-10	1/22/2010
16-Feb-10		16-Feb-10	2/16/2010
17-Mar-10		17-Mar-10	3/17/2010
19-Apr-10		19-Apr-10	4/19/2010
2-Sep-10	9/2/2010	2-Sep-10	9/2/2010
19-Nov-10	12/9/2010	9-Dec-10	12/9/2010
7-Feb-11	2/7/2011	7-Feb-11	2/7/2011
25-Mar-11	3/25/2011	25-Mar-11	3/25/2011
25-Mar-11	3/25/2011	25-Mar-11	3/25/2011
25-Mar-11	3/25/2011	25-Mar-11	3/25/2011
25-Mar-11	3/25/2011	25-Mar-11	3/25/2011
29-Mar-11	3/29/2011	29-Mar-11	3/29/2011
20-Jun-11	6/29/2011	29-Jun-11	6/29/2011
27-Jul-11	7/27/2011	27-Jul-11	7/27/2011
20-Sep-11	9/20/2011	20-Sep-11	9/20/2011
20-Sep-11	9/20/2011	20-Sep-11	9/20/2011
20-Oct-11	10/20/2011	20-Oct-11	10/20/2011
18-Apr-12	4/18/2012	3-May-12	5/3/2012
1-May-12	5/1/2012	3-May-12	5/3/2012
11-May-12	5/11/2012	5-Jul-12	7/5/2012
2-Dec-12	12/2/2012	6-Dec-12	1/30/2013
2-Dec-12	12/2/2012	6-Dec-12	12/6/2012
28-Dec-12	12/28/2012	10-Jan-13	1/31/2013
13-Mar-13	3/13/2013	2-Apr-13	4/2/2013
16-Apr-13	4/16/2013	24-Apr-13	4/24/2013
30-Apr-13	4/30/2013	1-May-13	5/1/2013
19-Nov-13	11/19/2013	26-Nov-13	11/26/2013
8-May-07		8-May-07	5/8/2007
16-May-07		16-May-07	3/30/2011
25-May-07		12-Jun-07	12/8/2010
7-Jun-07		12-Jun-07	3/29/2011
8-Jun-07		12-Jun-07	3/31/2011
25-Jun-07		25-Jun-07	3/29/2011
8-Aug-07		8-Aug-07	12/15/2010
17-Aug-07		17-Aug-07	8/17/2007
24-Aug-07		27-Aug-07	8/27/2007
18-Sep-07		18-Sep-07	9/18/2007
19-Sep-07		14-Jun-10	12/15/2010
26-Sep-07		26-Sep-07	9/26/2007
15-Oct-07		15-Oct-07	10/15/2007
6-Nov-07		8-Nov-07	11/8/2007
8-Nov-07		8-Nov-07	11/8/2007
9-Nov-07		13-Nov-07	11/28/2007
21-Nov-07		21-Nov-07	11/21/2007
21-Nov-07		26-Nov-07	11/26/2007
26-Nov-07		26-Nov-07	11/26/2007
26-Nov-07		28-Nov-07	11/28/2007
3-Dec-07		5-Dec-07	12/5/2007
10-Dec-07		10-Dec-07	12/15/2010
12-Dec-07		14-Jun-10	6/14/2010
17-Dec-07		18-Dec-07	12/18/2007

Category 3		25	25
Category 3		50	50
Category 3		100	10
Category 3		50	50
Category 1		24750	0
Category 3		15	15
Category 3		100	60
Category 3		3	3
Category 3		10	0
Category 1		1750	300
Category 3		100	100
Category 1		3765	0
Category 1		15200	0
Category 1		2305	0
Category 1		915	0
Category 3		2	2
Category 3		10	0
Category 3		1	1
Category 3		500	0
Category 3		590	0
Category 3		150	150
Category 3		303	150
Category 3		20	15
Category 3		2	2
Category 1		832	0
Category 1		19778	0
Category 1		890	0
Category 1		660	0
Category 1		3561	5
Category 3		1	1
Category 1	546	751	0
Category 1		126	0
Category 3		40	0
Category 1		300	0
Category 1		3480	0
Category 3		1	1
Category 3		30	30
Category 1		30	0
Category 3		25	25
Category 3		200	0
Category 3		10	0
Category 1		500	0
Category 3		5	5
Category 1		50	0
Category 3		50	0
Category 1		175	0
Category 2		13440	0
Category 3		135	0
Category 3		50	
Category 1		300	0
Category 2		2700	0
Category 1		18198	200
Category 1		20	0
Category 3		500	250
Category 1		480	0

0 No	No
0 No	No
0 No	No
0 No	No
24750 Yes	Yes
0 No	No
0 No	Yes
0 No	No
0 No	No
1450 Yes	Yes
0 No	No
3765 Yes	Yes
15200 Yes	Yes
2305 Yes	Yes
915 Yes	Yes
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
832 Yes	Yes
19778 Yes	Yes
890 No	No
620 Yes	Yes
3555 Yes	Yes
0 No	No
205 Yes	Yes
126 Yes	Yes
0 No	No
300 No	Yes
3480 Yes	Yes
0 No	No
0 No	No
30 No	Yes
0 No	No
0 No	No
No	No
500 Yes	Yes
No	No
50 No	Yes
No	No
175 No	Yes
0 No	Yes
No	No
No	No
300 No	Yes
0 No	No
17998 Yes	Yes
20 No	Yes
0 No	Yes
480 Yes	No

Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
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Not Applicable - Spill did not reach storm drainpipe
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Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
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Not Applicable - Spill did not reach a separate storm drainpipe
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Not Applicable - Spill did not reach a separate storm drainpipe
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Not Applicable - Spill did not reach storm drainpipe
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Not Applicable - Spill did not reach storm drainpipe
No
No
No
Not Applicable - Spill did not reach storm drainpipe

Rodeo Sanitary District
519 Sonoma Avenue Basement
540, 534 and 528 Vallejo Avenue
512 4th street
3rd street, manhole 80, manhole 99, manhole 100
Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary District
541 Suisun Ave
426 Vallejo Ave Back Yard
Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary District Tormey Lift Station
Lefty Gomez Ballfield
820 7th St
820 7th St
401 Sonoma St
3rd and Vaqueros Ave
541 Suisun Ave
Barnes Way
523 Vallejo Ave
73 3rd St
Vaqueros Ave_11-17-13
129 Via La Brisa
114 Greenfield ave
192 Tamalpais
12 Allyn
American legion hall larkspur
69 Hatzic Ct.
119 Santa Cruz
Sycamore Ave
128 Tamalpais
75 Mt. View Rd Fairfax
355 Tamalpais
Greenfield at Spring Grove, San Anselmo
506 Sequoia
17 Via Navarro
367 Oak Ave. San Anselmo
708 Fawn Dr. San Anselmo Ca. 94960
80 Corte Encanto
29 Terrace Ave. Kentfield
5 Wolf Glen
Redwood park
1100 S. Eliseo Dr. Greenbrae
497 Scenic
9 Skyland
310 Woodland

38.031147	-122.256489 Contra Costa
38.030819	-122.260778 Contra Costa
38.0307	-122.262431 Contra Costa
38.032972	-122.26775 Contra Costa
38.035258	-122.26585 Contra Costa
38.035789	-122.267822 Contra Costa
38.036975	-122.261594 Contra Costa
38.031389	-122.270456 Contra Costa
38.032081	-122.271697 Contra Costa
38.028536	-122.264331 Contra Costa
38.03691	-122.26959 Contra Costa
38.03524	-122.2657 Contra Costa
38.03526	-122.26539 Contra Costa
38.03518	-122.26509 Contra Costa
38.03652	-122.26646 Contra Costa
38.02903	-122.26762 Contra Costa
38.03057	-122.26287 Contra Costa
38.033069	-122.261483 Contra Costa
38.03696	-122.26549 Contra Costa
38.03234	-122.2605 Contra Costa
38.04854	-122.24875 Contra Costa
38.03112	-122.26848 Contra Costa
38.02879	-122.26397 Contra Costa
38.02879	-122.26397 Contra Costa
38.03386	-122.26007 Contra Costa
38.03528	-122.26569 Contra Costa
38.03057	-122.26284 Contra Costa
38.031176	-122.264612 Contra Costa
38.030967	-122.261693 Contra Costa
38.033534	-122.273256 Contra Costa
38.02996	-122.26463 Contra Costa
37.9393753	-122.52572 Marin
37.9762	-122.55882 Marin
37.98733	-122.59687 Marin
37.976111	-122.57741 Marin
37.93274	-122.5343 Marin
37.93049	-122.52251 Marin
37.98608	-122.5668 Marin
37.9773	-122.5649 Marin
37.9885	-122.5969 Marin
37.9855	-122.5962 Marin
37.98581	-122.59775 Marin
37.9762	-122.5572 Marin
37.9823	-122.5568 Marin
37.9496	-122.5157 Marin
37.9726	-122.5734 Marin
38.0009	-122.5664 Marin
37.9469	-122.5271 Marin
37.9559	-122.5446 Marin
37.9566	-122.5352 Marin
37.954	-122.5337 Marin
37.9443	-122.5345 Marin
37.97806	-122.57924 Marin
37.9629	-122.5506 Marin
37.9382	-122.5303 Marin

[illegible]

Manhole in front of house at 712 California Street

Sewage entered basement sink and spilled onto floor. Plumber on site removed cleanout cover inside home and cause n
Sewage flowed from the manhole in the backyard of 528 Vallejo and flowed downhill into the backyard of 534 Vallejo and
Sewage came out illegal floor drain in home a spilled less then 50 gallons into residence.

Three consecutive manholes in 3rd street, all within 223 feet of each other overflowed due to heavy rains.

clean-out in front of residence

Manhole in 7th street and vaqueros avenue

Toilet in bathroom of Residence from pressure surge during cleaning operation.

Resident's backyard cleanout area and adjacent stone patio

Clean-out for Connoco Phillips Administration Building next to the Rodeo Sanitary District Tormey Lift Station

Manhole # 443 was nearly full, leak observed adjacent to MH

Customer private lateral clean out located at front of residence in a gravel driveway

Soil near driveway clean-out

3 Street manholes in closely associated Collections sewer-shed

Back yard patio area

Midway down Barnes Way @ MH169, spill also presented at a location 30' South of MH

Private Lateral cleanout and some small seepage thru pavement at driveway

Spill moistened the area around #3 C/O, did not enter a storm drain and essentially dried on its own while obstruction was

Manhole # 112

In street in front of 129 Via La Brisa

Leaking into storm drain in front of 192 Tamalpais

80 feet below #12 Allyn Ave, leaking from a crack in pavement

No surface overflow

Easement behind 69 Hatzic Ct.

Driveway of 119 Santa Cruz

Planting Strip near side walk

Hillside behind 128 Tamalpais

In front of 75 Mt. View

Greenfield Ave. at Spring Grove

Man hole in street

Back yard of 17 Via Navarro, hillside

Dirt area along road

Overflowing rod hole by gyttterpan

Inside Apt. and from cleanout

Sewage seeping from rodhole #1056 on street in front of # 29 Terrace Ave.

Driveway of #5 Wolf Glen

Behind 465 Los Cerros

Rodhole overflowed into a parking lot storm drain that eventually drains into the Corte Madera Creek.

Manhole at 497 Scenic

Overflowing rodhole next to 9 Skyland

Manhole on Woodland Rd. in front of # 310

more flooding. Less than 50 gallons of s
into the side yard and garage of 540 Ve

; relieved

Manhole
Building or structure
Manhole
Building or structure
Manhole
Building or structure
Manhole
Other sewer system structure
Manhole
Manhole
Building or structure
Manhole
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Manhole
Manhole
Building or structure
Other (specify)
Other sewer system structure
Other (specify)
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Other sewer system structure
Other (specify)
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Other (specify)
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Other (specify)
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Other sewer system structure;Other (specify)
Other sewer system structure
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Other (specify)
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Manhole

Resident's lateral clean out
cleanout
lateral clean-out

Area of soil just downhill from manhole
Customer private lateral clean out
customer lateral cleanout

3 Manholes in closely associated Collections sewer-shed
Residents Lateral cleanout
A section of dirt adjacent to roadway
cracks in pavement at driveway
end of the line cleanout

Storm drain
crack in pavement
14' main line was plugged off and abandoned at least 14 years ago. Live lateral was never tied in to new main. Do not be

leaking through ground from main

Lateral

Private clean out

Inside Apt. and from cleanout

Rodhole

Street/curb and gutter
Building or structure
Building or structure;Street/curb and gutter;Unpaved surface
Building or structure
Storm drain;Surface water
Building or structure
Other paved surface;Storm drain;Street/curb and gutter
Other paved surface
Other paved surface
Other paved surface;Separate storm drain;Street/curb and gutter;Surface water
Building or structure
Other paved surface;Separate storm drain;Street/curb and gutter
Other paved surface;Separate storm drain;Street/curb and gutter
Other paved surface;Separate storm drain;Street/curb and gutter
Other paved surface;Separate storm drain;Street/curb and gutter
Building or structure
Unpaved surface
Unpaved surface
Unpaved surface
Unpaved surface
Unpaved surface
Other (specify below)
Unpaved surface
Street/curb and gutter;Unpaved surface;Other (specify below)
Separate storm drain
Separate storm drain
Unpaved surface
Other paved surface;Separate storm drain;Street/curb and gutter;Unpaved surface
Other paved surface;Separate storm drain;Street/curb and gutter;Surface water;Other (specify below)
Other (specify below)
Drainage Channel;Separate Storm Drain;Street/Curb and Gutter;Surface Water;Unpaved surface
Storm drain;Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Separate storm drain;Street/curb and gutter
Other (specify below)
Other (specify below)
Separate storm drain
Storm drain;Street/curb and gutter
Unpaved surface
Other paved surface
Separate storm drain;Unpaved surface
Other paved surface
Storm drain
Unpaved surface
Other paved surface;Storm drain
Other (specify below)
Building or structure;Unpaved surface
Street/curb and gutter
Street/curb and gutter
Unpaved surface
Storm drain;Other (specify below)
Street/curb and gutter
Other paved surface;Street/curb and gutter;Unpaved surface
Street/curb and gutter;Surface water

concrete drainage swale located just below man hole on hill and flat area of soil at end of swale

Affected soil removed to plant for disposal, cleanup water vacuumed and returned to plant

Entered storm drain, which eventually drains into the San Francisco Bay
evaporated (spill amount was less than 1 gal)

Spill dried in the gutter, debris was removed from area
From storm drain onto open land

14' main line was plugged off and abandoned at least 14 years ago. Live lateral was never tied in to new main. Unknown
Water was absorbed into ground.

Sewage was recovered from dip in the street

Spill started at Rodhole, to gutterpan, to storm drain then land(hillside).

Corte Madera Creek

10/12/2009 0:00	10/12/2009 13:30	10/12/2009 13:40	10/12/2009 13:50
10/30/2009 0:00	10/30/2009 12:00	10/30/2009 12:15	10/30/2009 18:00
11/2/2009 0:00	11/2/2009 7:45	11/2/2009 8:00	11/2/2009 8:30
1/18/2010 0:00	1/18/2010 14:00	1/18/2010 14:10	1/18/2010 14:20
1/20/2010 0:00	1/20/2010 10:00	1/20/2010 10:00	1/20/2010 12:30
2/15/2010 0:00	2/15/2010 14:00	2/15/2010 14:10	2/15/2010 14:00
3/16/2010 0:00	3/16/2010 8:00	3/16/2010 8:10	3/16/2010 8:20
4/14/2010 0:00	4/14/2010 9:00	4/14/2010 9:05	4/14/2010 9:05
9/1/2010 0:00	9/1/2010 21:15	9/1/2010 22:00	9/1/2010 22:10
11/19/2010 0:00	11/19/2010 8:00	11/19/2010 8:05	11/19/2010 8:45
1/26/2011 0:00	1/26/2011 13:00	1/26/2011 13:10	1/26/2011 13:30
3/24/2011 0:00	3/24/2011 12:11	3/24/2011 12:11	3/24/2011 17:15
3/24/2011 0:00	3/24/2011 12:11	3/24/2011 12:11	3/24/2011 17:45
3/24/2011 0:00	3/24/2011 12:31	3/24/2011 12:31	3/24/2011 16:30
3/24/2011 0:00	3/24/2011 12:58	3/24/2011 12:58	3/24/2011 16:01
2/2/2011 0:00	2/2/2011 12:00	2/2/2011 12:00	2/2/2011 12:00
6/19/2011 13:15	6/19/2011 14:22	6/19/2011 14:50	6/19/2011 17:20
6/29/2011 0:00	6/29/2011 7:45	6/29/2011 7:45	6/29/2011 7:45
9/13/2011 0:00	9/13/2011 8:15	9/13/2011 8:15	9/13/2011 8:15
9/17/2011 0:00	9/17/2011 19:07	9/17/2011 20:20	9/17/2011 21:05
10/10/2011 0:00	10/10/2011 13:05	10/10/2011 13:05	10/10/2011 13:05
4/18/2012 0:00	4/18/2012 12:15	4/18/2012 12:50	4/18/2012 14:15
4/28/2012 0:00	4/30/2012 15:34	4/30/2012 16:05	4/28/2012 12:15
5/9/2012 11:45	5/9/2012 11:45	5/9/2012 11:22	5/9/2012 11:47
12/2/2012 7:15	12/2/2012 8:25	12/2/2012 8:38	12/2/2012 10:13
12/2/2012 7:45	12/2/2012 9:12	12/2/2012 9:12	12/2/2012 10:12
12/22/2012 0:00	12/22/2012 11:53	12/22/2012 12:10	12/22/2012 13:28
3/9/2013 11:55	3/9/2013 12:00	3/9/2013 12:15	3/9/2013 15:35
4/13/2013 10:00	4/16/2013 8:02	4/16/2013 8:30	4/16/2013 8:42
4/28/2013 11:30	4/28/2013 11:42	4/28/2013 12:00	4/28/2013 13:15
11/17/2013 10:20	11/17/2013 10:30	11/17/2013 11:00	11/17/2013 11:39
5/7/2007 7:41	5/7/2007 7:41	5/7/2007 8:05	5/7/2007 8:30
5/12/2007 11:00	5/12/2007 11:00	5/12/2007 12:00	5/12/2007 13:30
5/18/2007 13:00	5/18/2007 0:00	5/18/2007 13:30	5/25/2007 13:00
6/5/2007 8:20	6/5/2007 8:20	6/5/2007 9:15	6/6/2007 11:00
6/1/1993 12:00	6/8/2007 12:00	6/8/2007 12:00	6/8/2007 12:00
6/22/2007 15:45	6/22/2007 15:45	6/22/2007 16:15	6/22/2007 17:00
8/4/2007 9:21	8/4/2007 9:22	8/4/2007 10:10	8/4/2007 10:10
8/16/2007 11:27	8/16/2007 11:27	8/16/2007 12:00	8/16/2007 12:20
8/22/2007 12:00	8/24/2007 10:15	8/24/2007 11:00	8/24/2007 11:15
9/17/2007 11:50	9/17/2007 11:50	9/17/2007 12:05	9/17/2007 13:05
9/17/2007 12:45	9/17/2007 12:45	9/17/2007 14:00	9/17/2007 15:00
9/25/2007 11:15	9/25/2007 11:15	9/25/2007 11:30	9/25/2007 12:00
10/14/2007 10:40	10/14/2007 10:40	10/14/2007 11:40	10/14/2007 11:40
11/5/2007 9:30	11/5/2007 9:30	11/5/2007 10:00	11/5/2007 10:45
11/5/2007 10:45	11/6/2007 10:45	11/6/2007 11:15	11/6/2007 12:00
11/2/2007 11:00	11/9/2007 9:25	11/9/2007 9:45	11/9/2007 11:00
11/21/2007 10:05	11/21/2007 10:05	11/21/2007 10:05	11/21/2007 10:50
11/21/2007 0:00	11/21/2007 2:30	11/21/2007 2:50	11/21/2007 3:10
11/24/2007 4:25	11/24/2007 4:25	11/24/2007 5:15	11/24/2007 5:45
11/25/2007 12:00	11/25/2007 12:00	11/25/2007 12:50	11/25/2007 1:30
11/19/2007 10:30	12/3/2007 10:30	12/3/2007 11:00	12/3/2007 11:30
12/9/2007 5:25	12/9/2007 5:45	12/9/2007 9:20	12/9/2007 11:50
12/10/2007 18:00	12/11/2007 8:05	12/11/2007 8:20	12/11/2007 9:20
12/17/2007 8:00	12/17/2007 10:45	12/17/2007 11:20	12/17/2007 12:00

Grease deposition (FOG)
Root intrusion
Root intrusion
Other (specify below)
Flow exceeded capacity
Debris-Rags
Other (specify below)
Pipe structural problem/failure
Pipe structural problem/failure
Debris-General
Pipe structural problem/failure
Flow exceeded capacity (Separate CS Only)
Flow exceeded capacity (Separate CS Only)
Flow exceeded capacity (Separate CS Only)
Flow exceeded capacity (Separate CS Only)
Other (specify below)
Debris-Rags
Other (specify below)
Debris-General
Debris-General
Pump station failure
Pipe structural problem/failure
Grease deposition (FOG)
Other (specify below)
Flow exceeded capacity (Separate CS Only)
Flow exceeded capacity (Separate CS Only)
Root intrusion
Root intrusion
Root intrusion
Grease deposition (FOG)
Debris from Lateral
Debris
Other (specify below)
Pipe structural problem/failure
Other (specify below)
Other (specify below)
Root intrusion
Root intrusion
Pipe structural problem/failure
Root intrusion
Pipe structural problem/failure
Debris-General
Pipe structural problem/failure
Other (specify below)
Root intrusion
Root intrusion
Root intrusion
Other (specify below)
Root intrusion
Root intrusion
Root intrusion
Pipe structural problem/failure
Other (specify below)
Grease deposition (FOG)
Debris

Residence has illegal floor drain and non-functional back flow preventer. This allowed sewage to enter home through the

Diapers

During routine cleaning operation of the sewer main, a pressure surge went up the residence lateral and burped the toilet. Unknown, removed root debris and diapers after cleaning operation

Original issue was a private lateral spill at 824 7th St, during hydrojetting to verify line integrity a small amount of water was

Combination of rags, paper and grease

Large amount of paper products removed from private lateral and pushed into main

Contractor damaged sewer main when installing new water main. Backfill rock blocked main. Above GPM is 2., not 21. THIS LATERAL WAS MISSED DURING A REHAB PRIOR TO 1994. THE DATES ARE AS ACCURATE AS POSSIBLE.

Debris/Roots from a lateral

Contractor plugged main with a plug to test causing main to back up into apartment. Apartment maintenance staff responded

Large amount of rags

Paper/rags

Main
Main

Main
Main
Main
Main
Main
Main
Main
Main
Main
Main
Main
Main
Other (specify below)
Main
Main
Lower Lateral
Main
Main
Main
Main
Main
Main
Gravity Mainline

Main
Main
Main
Other (specify below)
Main
Main

Main

ided and removed clean out cap allowing sewa

Main

Pump station PLC went into fault mode and did not start pumps to pump sewage from lift station. Wet well filled up and s

There was not an overflow, only a back up contained in the lateral and large a large abandoned trunk line. The old trunk l

ge to flow to land

10 unk

6 VCP

6 VCP

ipped at nearest clean-out fr

8 VCP

6 VCP

6 VCP

10

6 VCP

6 VCP

VCP

6 VCP

No

6 VCP

6 vcp

6

6

6 vcp

6 vcp

line may have acting as a pa

4 vcp

6 vcp

6 vcp

5 vcp

6 vcp

6 vcp

6

45

6 VCP

6 VCP

6 VCP

6 vcp

6 vcp

6

4 CIP

80

75

50

75

45

50

85

50

Had Restoration Management clean and disinfect all affected areas of basement floor.
Replaced section of pipe and removed roots. Had Restoration Management clean and disinfect affected areas of land and

Sampled upstream and downstream in Rodeo Creek for Total Coliform and Ammonia.
Hired Restoration Management to clean bathrooms.

Replaced broken sections of pipe.

The District was unable to recover any flow due to the nature of the storm event. The location has extremely heavy runoff.
The District was unable to recover any flow due to the nature of the storm event. The location has extremely heavy runoff.
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The District was unable to recover any flow due to the nature of the storm event. The location has extremely heavy runoff.

Cleared broken VCP chunks from sewer, hydro-jetted line clean, barricaded area, dry sweep concrete drainage ditch after

Shoveled soil around clean-out for disposal at treatment plant, assisted resident at 824 7th St in cleaning the area around
Barricade and post warnings to area, cleanup small amount of paper products when spill was over
Installed bypass pumping to reduce size of spill (last 16 minutes of spill were only at 8 gpm), the bypass pumping was as

Vacuum as much of spill as was possible

The SSO was originally misreported as a category 1. Water dried in gutter, Small amount of debris was removed and a

Originally thought to be a private issue. A plumber working for the owner discovered why the lateral was backing up, SD#

Cleaned main and surrounding area

Man hole was full but not overflowing on arrival. Restored flow in main. Recovered all spilled sewage. A work order has
Mouth of mainline was partially blocked with roots that were cut from a lateral

Broke the root blockage and cleaned the accessible storm drain with the vac truck and flushed the inaccessible storm drain.
Inspection Department arrived to inspect a new man hole installed privately (Not a District job) When Joe arrived, he found
Cleaned up street & gutterpan. Removed 5gal bucket worth of contaminated leaves.

Broke blockage with rod and contained some of the spill in the parking lot. Restored flow. Vacuumed up some sewage from
Posted signs

1/20/2010 14:00

3/16/2010 10:00

12/9/2010 8:20

3/24/2011 18:00

3/24/2011 18:00

3/24/2011 18:00

3/24/2011 18:00

12/2/2012 10:12

12/2/2012 15:21

3/9/2013 16:00

4/16/2013 11:30

11/19/2013 12:48

5/7/2007 8:45

5/29/2007 16:00

6/7/2007 16:00

8/4/2007 11:15

9/19/2007 12:00

10/14/2007 1:00

11/6/2007 1:30

11/9/2007 3:15

11/24/2007 6:15

11/25/2007 2:45

12/3/2007 1:30

12/9/2007 11:50

12/11/2007 0:00

12/17/2007 3:00

Plan rehabilitation or replacement of sewer

Other (specify below)

Adjusted schedule/method of preventive maintenance

Plan rehabilitation or replacement of sewer

Plan rehabilitation or replacement of sewer

Plan rehabilitation or replacement of sewer

Plan rehabilitation or replacement of sewer

Other (specify below)

Other (specify below)

Other (specify below)

Repaired sewer

Adjusted schedule/method of preventive maintenance

Adjusted schedule/method of preventive maintenance

Adjusted schedule/method of preventive maintenance;Repaired sewer

Repaired sewer

Adjusted schedule/method of preventive maintenance

Repaired sewer

Other (specify below)

Other (specify below)

Adjusted schedule/method of preventive maintenance;Other (specify below)

Adjusted schedule/method of preventive maintenance

Adjusted schedule/method of preventive maintenance

Added sewer to preventive maintenance program

Other (specify below)

Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance;Other (specify below)

Adjusted schedule/method of preventive maintenance;Other (specify below)

Continue to utilize semi annual news letter to send message toilet is not a trash can

Master plan to address
To be addressed in Master Plan development

Ongoing investigation will determine most effective future steps

Stopped leak, will dig and repair on 5-29-07 Repaired main on 5-29-07

Rodded/flushed main Restored flow. cleaned debris and solids from area

Roots were from a private lateral

Main will be TV' ed on 11-9-07 to determine corrertions needed. Main line is only 6 years old
CCTV sewer in three months to determine future maintenance and or replacement.

A work order has been issued for TV and repair as needed
Will CCTV to determine if any further repairs are necessary
Will repair as needed
Will CCTV for needed repairs

Yes

No

Yes

Yes

Yes

Yes

Yes

No

Yes

Yes

Yes

No

No

Yes

No

No

Yes

No

Yes

No

Yes

No

No

No

Yes

Yes

No observable indications
no changes

Drainage channel flows into a culvert and on to Rodeo creek less than 50 feet away, interior of culvert showed no indications
No Visual impact

N/A

NA

No impact

n/a

N/A

N/A

N/A

N/A

N/A

NA

N/A

N/A

Manhole was seeping water from lid

N/A

N/A

n/a

n/a

Found no visual impact

n/a

No visual material or other impact

No

No

No

No

No

No

No

Yes

Yes

No

Yes

No

No

No

Yes

Yes

Yes

Yes

No

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

na

na

NA
N/A
NA
n/a
n/a

N/A

NA

N/A

n/a
N/A

n/a
n/a
NA
N/A
n/a
na

Rodeo Creek

na

Rodeo Creek

Rodeo Creek

Rodeo Creek

Rodeo Creek

Rodeo Creek

n/a

n/a

no impacted surface waters

no surface waters impacted

no impacted surface water

Rodeo Creek

Rodeo Creek

no impacted surface waters

Rodeo Creek

Rodeo Creek, San Francisco Bay

none impacted

Rodeo Creek, which flows eventually into San Pablo Bay

NA

N/A

NA

San Anselmo Creek

n/a

none

N/A

Fairfax creek

N/A

n/a

N/A

n/a

n/a

Corte Madera Creek

N/A

n/a

Woodland Rd Creek

Other chemical indicator(s) - specify below; Biological indicator(s) - specify below

Not applicable to this spill

Biological indicator(s) - specify below

No water quality samples taken

No water quality samples taken

No water quality samples taken

No water quality samples taken

No water quality samples taken

No water quality samples taken

No water quality samples taken

No water quality samples taken

No water quality samples taken

No water quality samples taken

No water quality samples taken

Other (specify below)

No water quality samples taken

No water quality samples taken

No water quality samples taken

No water quality samples taken

No water quality samples taken

No water quality samples taken

No water quality samples taken

Other (specify below)

No water quality samples taken

No water quality samples taken

No water quality samples taken

Ammonia and Total Coliform

Total Coliform, up stream, at spill location, and down stream. 1000 feet upstream total coliform = 900 mpn/100ml At spill location total coliform = 1000 mpn/100ml At downstream total coliform = 1000 mpn/100ml

0.4 Ammonia From down stream storm drain prior to cleaning

Ammonia

None of the above

Not applicable to this spill

None of the above

None of the above

None of the above

None of the above

None of the above

No water quality samples taken

No water quality samples taken

No water quality samples taken

No water quality samples taken

No water quality samples taken

None of the above

None of the above

None of the above

None of the above

County Health Agency

None of the above

None of the above

None of the above

None of the above

None of the above

None of the above

None of the above

County Health Agency;Regional Water Quality Control Board

None of the above

Central Marin Sanitation Agency ran ammonia tests on two samples: one was taken 30ft upstream and one was taken 30f

Duration of observed flow rate and upstream connections methods

t. downstream of where the storm drain empties into creek. CMSA found no difference in color between both samples. W:

100455	1/20/2010 11:00
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106958	11/19/2010 9:25
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111859	3/24/2011 14:00
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111859	3/24/2011 14:00
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111859	3/24/2011 14:00
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111859	3/24/2011 14:00
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127296	12/2/2012 9:34
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127296	12/2/2012 9:34
--------	----------------

132286	4/16/2013 10:19
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137140	11/19/2013 13:51
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73435	6/6/2007 14:55
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76923	11/9/2007 1:40
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Jul-74	11/26/2007 9:00
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77471	12/3/2007 2:50
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Steven S. Beall, P.E., District Manager

5107992970

2SSO10172	Active	709839 Eric Smith	Certified
2SSO10172	Active	710237 Eric Smith	Certified
2SSO10172	Active	710244 Eric Smith	Certified
2SSO10172	Active	710569 Eric Smith	Certified
2SSO10172	Active	710728 Eric Smith	Certified
2SSO10172	Active	710735 Eric Smith	Certified
2SSO10172	Active	710884 Eric Smith	Certified
2SSO10172	Active	710935 Eric Smith	Certified
2SSO10172	Active	710958 Eric Smith	Certified
2SSO10172	Active	710974 Eric Smith	Certified
2SSO10172	Active	711187 Eric Smith	Certified
2SSO10172	Active	711936 Eric Smith	Certified
2SSO10172	Active	711999 E Smith	Certified
2SSO10172	Active	712071 E Smith	Certified
2SSO10172	Active	712075 E Smith	Certified
2SSO10172	Active	712086 Eric Smith	Certified
2SSO10172	Active	712112 Eric Smith	Certified
2SSO10172	Active	712114 Eric Smith	Certified
2SSO10172	Active	712120 Eric Smith	Certified
2SSO10172	Active	712122 Eric Smith	Certified
2SSO10172	Active	712180 Eric Smith	Certified
2SSO10172	Active	712348 Eric Smith	Certified
2SSO10172	Active	712676 Eric Smith	Certified
2SSO10172	Active	712713 Eric Smith	Certified
2SSO10172	Active	712962 E Smith	Certified
2SSO10172	Active	712965 E Smith	Certified
2SSO10172	Active	713773 Eric Smith	Certified
2SSO10172	Active	713774 Eric Smith	Certified
2SSO10172	Active	713959 Eric Smith	Certified
2SSO10172	Active	714795 Eric Smith	Certified
2SSO10172	Active	715488 Eric Smith	Certified
2SSO10172	Active	715904 Eric Smith	Certified
2SSO10172	Active	716268 E Smith	Certified
2SSO10172	Active	716522 Eric Smith	Certified
2SSO10172	Active	717945 Eric Smith	Certified
2SSO10172	Active	718024 Eric Smith	Certified
2SSO10172	Active	718775 Eric Smith	Certified
2SSO10172	Active	720989 Eric Smith	Certified
2SSO10172	Active	725458 Eric Stassevitch	Certified
2SSO10172	Active	727492 E Smith	Certified
2SSO10172	Active	727771 Eric Smith	Certified
2SSO10172	Active	727911 E Smith	Certified
2SSO10172	Active	728563 E Smith	Certified
2SSO10172	Active	729181 E Smith	Certified
2SSO10172	Active	729308 Eric Smith	Certified
2SSO10172	Active	729337 Eric Smith	Certified
2SSO10172	Active	729417 Eric Smith	Certified
2SSO10172	Active	729711 Eric Smith	Certified
2SSO10172	Active	730029 Eric Smith	Certified
2SSO10172	Active	730967 Eric Smith	Certified
2SSO10172	Active	731232 Eric Smith	Certified
2SSO10172	Active	731642 E Smith	Certified
2SSO10172	Active	731672 Eric Smith	Certified
2SSO10172	Active	731870 Eric Smith	Certified
2SSO10172	Active	732033 Eric Smith	Certified

[illegible]

District Engineer

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San Rafael	582662
San Rafael	126525
San Rafael	617908
San Rafael	917956
San Rafael	393804
San Rafael	261465
San Rafael	980933
San Rafael	419607
San Rafael	900400
San Rafael	606403
San Rafael	703936
San Rafael	123900
San Rafael	696648
San Rafael	515863
San Rafael	915771
San Rafael	502233
San Rafael	645223
San Rafael	764973
San Rafael	903208
San Rafael	356930
San Rrafael	900502
San Rafael	977382
San Rafael	591962
San Rafael	112981
San Rafael	373541
San Rafael	370704
San Rafael	962756
San Rafael	623803
San Rafael	804064
San Rafael	676929
San Rafael	290436
San Rafael	289581
San Rafael	291226
San Rafael	122893
San Rafael	503319
San Rafael	803934
San Rafael	606088
San Rafael	691482
San Rafael	838512
San Rafael	890698
San Rafael	346796
San Rafael	549506
San Rafael	377461
San Rafael	143349
San Rafael	676487
San Rafael	985236
San Rafael	628552
San Rafael	727308
San Rafael	642502
San Rafael	393399
San Rafael	601875
San Rafael	723706
San Rafael	417317
San Rafael	601367
San Rafael	247712

19-Dec-07	20-Dec-07	12/20/2007
24-Dec-07	26-Dec-07	12/26/2007
24-Dec-07	26-Dec-07	12/26/2007
2-Jan-08	7-Jan-08	1/7/2008
7-Jan-08	9-Jan-08	12/16/2010
7-Jan-08	7-Jan-08	1/7/2008
8-Jan-08	9-Jan-08	1/9/2008
8-Jan-08	9-Jan-08	1/9/2008
9-Jan-08	9-Jan-08	1/9/2008
9-Jan-08	9-Jan-08	1/9/2008
14-Jan-08	14-Jan-08	1/14/2008
28-Jan-08	29-Jan-08	1/29/2008
29-Jan-08	14-Jun-10	6/14/2010
30-Jan-08	14-Jun-10	6/14/2010
30-Jan-08	14-Jun-10	6/14/2010
30-Jan-08	5-Feb-08	2/5/2008
31-Jan-08	31-Jan-08	1/31/2008
31-Jan-08	31-Jan-08	1/31/2008
31-Jan-08	31-Jan-08	1/31/2008
31-Jan-08	31-Jan-08	1/31/2008
1-Feb-08	1-Feb-08	3/31/2011
5-Feb-08	5-Feb-08	2/5/2008
11-Feb-08	12-Feb-08	2/12/2008
11-Feb-08	12-Feb-08	2/12/2008
14-Feb-08	14-Jun-10	6/14/2010
14-Feb-08	14-Jun-10	6/14/2010
24-Feb-08	24-Feb-08	2/24/2008
24-Feb-08	24-Feb-08	2/24/2008
26-Feb-08	3-Mar-08	3/3/2008
12-Mar-08	12-Mar-08	3/12/2008
27-Mar-08	28-Mar-08	3/28/2008
8-Apr-08	9-Apr-08	4/9/2008
18-Apr-08	14-Jun-10	6/14/2010
25-Apr-08	25-Apr-08	4/25/2008
23-May-08	27-May-08	5/27/2008
27-May-08	27-May-08	5/27/2008
3-Jun-08	3-Jun-08	3/31/2011
30-Jun-08	30-Jun-08	6/30/2008
28-Aug-08	2-Sep-08	9/2/2008
7-Oct-08	14-Jun-10	6/14/2010
13-Oct-08	14-Oct-08	10/14/2008
15-Oct-08	14-Jun-10	6/14/2010
27-Oct-08	14-Jun-10	6/14/2010
12-Nov-08	14-Jun-10	6/14/2010
17-Nov-08	17-Nov-08	3/31/2011
18-Nov-08	18-Nov-08	11/18/2008
19-Nov-08	19-Nov-08	11/19/2008
21-Nov-08	8-Dec-08	12/8/2008
1-Dec-08	8-Dec-08	12/8/2008
22-Dec-08	29-Dec-08	12/29/2008
30-Dec-08	31-Dec-08	12/31/2008
9-Jan-09	14-Jun-10	6/14/2010
9-Jan-09	9-Jan-09	1/9/2009
14-Jan-09	14-Jan-09	1/14/2009
16-Jan-09	20-Jan-09	1/20/2009

Category 1	126	0
Category 3	20	0
Category 1	280	0
Category 3	50	0
Category 1	50	0
Category 1	216	0
Category 1	150	0
Category 3	450	0
Category 2	2808	0
Category 1	117	0
Category 3	64	0
Category 3	262	262
Category 1	4800	0
Category 1	4800	0
Category 1	33000	0
Category 1	24000	0
Category 1	24000	0
Category 1	24000	0
Category 3	500	0
Category 1	4800	0
Category 2	1144	0
Category 1	18	0
Category 1	50	0
Category 1	81	0
Category 1	50	0
Category 1	50	0
Category 1	486	0
Category 3	405	0
Category 1	8000	0
Category 3	153	0
Category 3	300	0
Category 3	600	0
Category 3	638	0
Category 3	150	2
Category 3	162	0
Category 3	50	0
Category 1	7200	7199
Category 3	319	250
Category 3	20	0
Category 3	50	0
Category 3	567	0
Category 3	673	0
Category 3	100	0
Category 3	50	0
Category 3	25	0
Category 3	40	0
Category 3	27	0
Category 3	150	0
Category 3	100	0
Category 1	555	50
Category 3	50	50
Category 3	50	50
Category 3	200	0
Category 3	600	0
Category 3	250	0

126 No	Yes
0 No	Yes
280 No	Yes
No	No
50 No	Yes
260 Yes	Yes
150 No	Yes
No	No
0 No	No
117 Yes	Yes
No	No
No	No
4800 Yes	Yes
4800 Yes	Yes
33000 Yes	Yes
24000 Yes	Yes
24000 Yes	Yes
24000 Yes	Yes
No	No
4800 Yes	Yes
0 No	No
18 No	Yes
50 No	Yes
81 No	Yes
50 Yes	Yes
50 Yes	Yes
486 Yes	Yes
No	No
8000 Yes	Yes
0 No	No
0 No	No
0 No	No
0 No	Yes
0 No	No
0 No	No
0 No	No
1 Yes	Yes
0 No	Yes
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
505 Yes	Yes
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No

No
No
No
Not Applicable - Spill did not reach storm drainpipe
No
No
No
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
No
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
No
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Not Applicable - Spill did not reach storm drainpipe
No
Not Applicable - Spill did not reach a separate storm drainpipe
No
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Not Applicable - Spill did not reach storm drainpipe
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Not Applicable - Spill did not reach storm drainpipe
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Not Applicable - Spill did not reach storm drainpipe
No
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
No
Yes
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach a separate storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
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Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
No
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe

PG&E Dig In At 25 Hill Kentfield
8 Deer Park Ln.
60 Geary Ave. Fairfax
153 Ridge Rd. Fairfax
100 Deer Hollow
Banchero
4 Oak Springs
111 Goodhill
Via La Cumbre
33 Agatha
64 Via Navaro
19 Morningside
67 College
Diane Ln
111 Goodhill
800 San Anselmo Ave.
800 San anselmo Ave #2
San Rafael
Quisisana
118 Sycamore
17 Morningside
Westwood
14 Tamalpais Ave. Larkspur
808 S.F. Drake Blvd.
Banchero
Banchero
310 West Baltimore
Cordone
40 Green Valley
101 Legend
65 Corte Amado
700 Lincoln Village Cir
94 Gregory
70 Corte Dorado
Via LA Paz Easement
68 Alder
2 Los Cerros
72 Almanar
112 Goodhill
8 Toyon
120 Oak Kentfield
16 Laurel Grove
40 Corte Cordva
Laurel Grove
16 Wolfe Canyon
61 Ridgecrest
110 Wood Lane
21 Toussin
405 Sequoia
20 Liberty
Broadmore
22 Canyon
67 Ridgecrest
100 Deer Hollow
6 Greenwood

37.9615	-122.5409 Marin
37.982	-122.5794 Marin
37.989	-122.588 Marin
37.9871	-122.601 Marin
37.99949	-122.57415 Marin
37.9987	-122.6013 Marin
37.999	-122.5807 Marin
37.9519	-122.5523 Marin
37.9512	-122.5137 Marin
37.9806	-122.5707 Marin
37.9507	-122.5174 Marin
37.9863	-122.5733 Marin
37.9502	-122.5497 Marin
37.9343	-122.5273 Marin
37.9519	-122.5523 Marin
37.9764	-122.5635 Marin
37.9768	-122.564 Marin
37.9767	-122.5642 Marin
37.9573	-122.5417 Marin
37.9773	-122.5648 Marin
37.98609	-122.57344 Marin
37.9448	-122.5658 Marin
37.9348	-122.5411 Marin
37.9536	-122.5409 Marin
37.9987	-122.6013 Marin
37.9987	-122.6013 Marin
37.9301	-122.5381 Marin
37.9855	-122.5706 Marin
37.9634	-122.561 Marin
38.0051	-122.5812 Marin
37.9558	-122.5275 Marin
37.9482	-122.5062 Marin
38.0027	-122.5913 Marin
37.9565	-122.531 Marin
37.9521	-122.5204 Marin
37.9814	-122.5723 Marin
37.94913	-122.52541 Marin
37.9503	-122.5328 Marin
37.95217871	-122.5515726 Marin
37.9601	-122.533 Marin
37.9552	-122.5413 Marin
37.9637	-122.5556 Marin
37.9547	-122.5308 Marin
37.9637	-122.5556 Marin
37.95721	-122.53483 Marin
37.9402	-122.5549 Marin
37.9769	-122.5962 Marin
37.96	-122.5504 Marin
37.9817	-122.5571 Marin
37.9355	-122.5282 Marin
37.9888	-122.5733 Marin
37.9695	-122.5503 Marin
37.94	-122.5548 Marin
37.9988	122.5738 Marin
37.9451	122.5559 Marin

[illegible]

Seepage under some common steps
Overflowing Contra Costa Valve
Rodhole in street

Fairfax creek
Manhole in front of #5 Oak Springs
50 inside house, 400 outside
Land slide area behind 307 Via La Cumbre
In the street in front of 33 Agatha Ct.
Rodhole in back of 69 Via Navaro
Bathroom of house
College Ave at Kent.
Manhole at Diane and William
Manhole at Vineyard and Woodland
Surcharging manhole at Bridge and San Anselmo Ave.
Surcharging manhole on San Anselmo ave at San Rafael Ave
Surcharging manhole at 807 San Rafael Ave
Lateral clean out at #7 Quisisana
Manhole on Sycamore at Center Blvd.
Bathroom/cellar inside house
In easement above 60 westwood
Rodhole overflowed onto street
Planter area in sidewalk

Clean out at 47 Cordone
Backyard of 40 Green Valley Ct.
seeping from ground and driveway
Hillside next to 65 Corte Amado
Manhole in open area
From manhole in street
Manhole in dirt area
Open Hillside
Clean out in yard

Easement in rear of yard
In the easement, on the property of # 112 Goodhill Rd.
Dirt area on side of the road
Lateral clean out
Overflowing cleanout flowed outside of building into crawl space opening and under it

In Kitchen area of Marin Art and Garden Center
Water seeping from manhole buried under flagstone in yard of 16 Wolfe Canyon.
Street
Hillside
Manhole leaking, 3 houses on main
On dirt hillside

Other (specify)
Other (specify)
Other (specify)
Other (specify)
Other sewer system structure
Gravity sewer
Manhole
Building or structure
Gravity sewer
Manhole
Other (specify)
Building or structure
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Other (specify)
Manhole
Building or structure
Gravity sewer
Other (specify)
Other (specify)
Gravity sewer
Gravity sewer
Manhole
Other (specify)
Manhole
Other (specify)
Manhole
Manhole
Manhole
Manhole
Other (specify)
Other (specify)
Other (specify)
Manhole
Gravity sewer
Manhole
Other (specify)
Other (specify)
Manhole
Building or structure
Manhole
Manhole
Other (specify)
Manhole
Other (specify)
Manhole
Other sewer system structure
Other sewer system structure
Manhole
Other (specify)
Manhole

Hole drilled in 6 " main during emergency repair/replacement of power pole, USA was not called.
Under some common steps
Contra Costa Valve in front of 60 Geary Ave.
Rodhole in street
Clean out

Rodhole

Lateral clean out

Rodhole
Planter area between sidewalk and gutterpan

Clean out

seeping from ground and driveway

Rodhole
Clean out at house
Cleanout

Lateral cleanout
Cleanout

Dirt hillside

Through ground

Rod hole

Clean out in yard of 100 Deer Hollow

Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Other paved surface;Street/curb and gutter;Unpaved surface
Unpaved surface
Surface water
Street/curb and gutter
Building or structure;Unpaved surface
Unpaved surface
Storm drain;Surface water
Unpaved surface
Building or structure
Street/curb and gutter
Other paved surface
Storm drain
Other paved surface;Storm drain
Other paved surface;Storm drain;Surface water
Storm drain;Street/curb and gutter;Surface water
Unpaved surface
Storm drain;Street/curb and gutter;Surface water
Building or structure;Unpaved surface
Storm drain;Unpaved surface
Other paved surface;Storm drain;Street/curb and gutter
Storm drain;Other (specify below)
Surface water
Surface water
Surface water
Unpaved surface
Surface water;Unpaved surface
Unpaved surface
Unpaved surface
Unpaved surface
Storm drain;Street/curb and gutter
Other paved surface;Unpaved surface
Unpaved surface
Unpaved surface
Separate storm drain
Storm drain;Unpaved surface
Other (specify below)
Unpaved surface
Unpaved surface
Unpaved surface;Other (specify below)
Unpaved surface
Other (specify below)
Other (specify below)
Street/curb and gutter
Unpaved surface
Unpaved surface
Unpaved surface
Other paved surface;Storm drain
Unpaved surface
Street/curb and gutter;Unpaved surface
Unpaved surface
Unpaved surface
Other paved surface;Unpaved surface

San Anselmo Creek

Corte Madera Creek

Owner had used a small pump to remove sewage from building to rear yard before The District was notified of spill

Dirt area of planter

Removed and returned all 250 gallons that entered from drain. Remaining was absorbed into dirt area
Land/yard

Under building

Building

flagstone in yard of 16 Wolfe Canyon.

12/18/2007 20:30	12/18/2007 20:30	12/18/2007 21:35	12/18/2007 22:30
12/22/2007 11:43	12/22/2007 11:43	12/22/2007 12:40	12/22/2007 18:45
12/23/2007 3:32	12/23/2007 3:32	12/23/2007 4:35	12/23/2007 4:45
12/29/2007 11:30	12/29/2007 11:30	12/29/2007 12:35	12/29/2007 12:50
1/3/2008 10:15	1/3/2008 10:15	1/3/2008 11:00	1/4/2008 2:30
1/5/2008 0:00	1/5/2008 9:40	1/5/2008 10:30	1/5/2008 15:30
1/7/2008 13:00	1/7/2008 13:00	1/7/2008 13:30	1/7/2008 13:50
1/4/2008 12:00	1/7/2008 3:00	1/7/2008 3:30	1/4/2008 13:00
1/4/2008 7:00	1/7/2008 2:00	1/7/2008 2:00	1/8/2008 4:00
1/8/2008 10:00	1/8/2008 10:35	1/8/2008 10:40	1/8/2008 11:00
1/13/2008 14:25	1/13/2008 14:25	1/13/2008 15:00	1/13/2008 18:20
1/25/2008 11:00	1/26/2008 10:00	1/26/2008 10:20	1/26/2008 4:00
1/25/2008 23:00	1/25/2008 23:00	1/25/2008 23:00	1/26/2008 1:00
1/25/2008 21:00	1/25/2008 21:00	1/25/2008 11:00	1/26/2008 1:00
1/25/2008 15:30	1/25/2008 15:30	1/25/2008 13:00	1/25/2008 21:00
1/25/2008 21:00	1/25/2008 21:00	1/25/2008 21:00	1/26/2008 1:00
1/25/2008 21:00	1/25/2008 21:00	1/25/2008 21:00	1/26/2008 1:00
1/25/2008 21:00	1/25/2008 21:00	1/25/2008 21:00	1/26/2008 1:00
1/26/2008 1:00	1/28/2008 10:00	1/28/2008 10:40	1/26/2008 1:00
1/25/2008 21:00	1/25/2008 21:00	1/25/2008 21:00	1/26/2008 1:00
1/25/2008 20:00	1/25/2008 21:00	1/25/2008 21:20	1/25/2008 21:00
2/4/2008 15:00	2/4/2008 16:00	2/4/2008 16:05	2/4/2008 0:00
2/10/2008 12:45	2/10/2008 12:45	2/10/2008 1:30	2/10/2008 1:45
2/11/2008 9:00	2/11/2008 1:05	2/11/2008 1:15	2/11/2008 1:30
2/13/2008 10:30	2/13/2008 7:45	2/13/2008 8:00	2/13/2008 10:45
2/13/2008 10:30	2/13/2008 7:45	2/13/2008 8:00	2/13/2008 10:45
2/23/2008 13:20	2/23/2008 13:20	2/23/2008 14:10	2/23/2008 14:50
2/24/2008 8:00	2/24/2008 11:25	2/24/2008 12:10	2/24/2008 12:30
2/24/2008 9:40	2/25/2008 10:00	2/25/2008 10:50	2/25/2008 11:40
3/10/2008 9:25	3/10/2008 9:25	3/10/2008 9:45	3/10/2008 10:30
3/26/2008 17:00	3/27/2008 7:05	3/27/2008 7:30	3/27/2008 10:45
4/8/2008 9:30	4/8/2008 9:30	4/8/2008 10:00	4/8/2008 11:30
4/17/2008 20:15	4/17/2008 20:15	4/17/2008 21:20	4/17/2008 22:05
4/23/2008 18:00	4/23/2008 18:00	4/23/2008 0:00	4/23/2008 19:15
5/22/2008 18:00	5/23/2008 9:25	5/23/2008 10:30	5/23/2008 12:00
5/26/2008 11:30	5/26/2008 11:30	5/26/2008 12:30	5/26/2008 13:00
5/4/2008 8:00	5/5/2008 7:55	5/5/2008 8:00	5/5/2008 8:05
6/28/2008 16:35	6/28/2008 16:35	6/28/2008 17:35	6/28/2008 19:30
8/27/2008 9:00	8/27/2008 15:30	8/27/2008 15:45	8/27/2008 16:30
10/6/2008 14:20	10/6/2008 14:20	10/6/2008 15:00	10/6/2008 15:15
10/12/2008 12:30	10/12/2008 18:45	10/12/2008 20:30	10/12/2008 20:45
10/14/2008 12:00	10/14/2008 14:55	10/14/2008 15:15	10/14/2008 16:00
10/27/2008 9:30	10/27/2008 9:30	10/27/2008 9:45	10/27/2008 10:00
11/10/2008 8:30	11/10/2008 9:35	11/10/2008 9:15	11/10/2008 10:15
11/15/2008 11:15	11/15/2008 11:15	11/15/2008 11:45	11/15/2008 12:30
11/17/2008 12:05	11/17/2008 12:05	11/17/2008 12:30	11/17/2008 12:45
11/18/2008 9:30	11/18/2008 10:05	11/18/2008 10:30	11/18/2008 10:30
11/20/2008 10:05	11/20/2008 10:05	11/20/2008 10:30	11/20/2008 10:30
11/25/2008 9:10	11/25/2008 9:10	11/25/2008 9:45	11/25/2008 10:15
12/21/2008 20:20	12/21/2008 20:20	12/21/2008 21:20	12/21/2008 21:30
12/30/2008 8:00	12/30/2008 8:00	12/30/2008 8:30	12/30/2008 9:00
1/8/2009 12:05	1/8/2009 12:05	1/8/2009 12:15	1/8/2009 12:25
1/8/2009 9:40	1/8/2009 9:40	1/8/2009 10:15	1/8/2009 10:15
1/13/2009 18:30	1/13/2009 18:30	1/13/2009 18:50	1/13/2009 19:30
1/16/2009 9:25	1/16/2009 9:25	1/16/2009 9:40	1/16/2009 9:55

Other (specify below)
Root intrusion
Debris
Root intrusion
Other (specify below)
Pipe structural problem/failure
Root intrusion
Rainfall exceeded design
Pipe structural problem/failure
Other (specify below)
Debris
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity (Separate CS Only)
Pipe structural problem/failure
Other (specify below)
Grease deposition (FOG)
Pipe structural problem/failure
Pipe structural problem/failure
Debris
Root intrusion
Debris
Pipe structural problem/failure
Other (specify below)
Root intrusion
Root intrusion
Debris
Debris
Other (specify below)
Pipe structural problem/failure
Grease deposition (FOG)
Debris
Other (specify below)
Other (specify below)
Pipe structural problem/failure
Other (specify below)
Pipe structural problem/failure
Root intrusion
Debris
Pipe structural problem/failure
Other (specify below)
Pipe structural problem/failure
Grease deposition (FOG)
Root intrusion
Debris-General
Other (specify below)
Root intrusion
Root intrusion

Hole drilled in 6" main during emergency repair/replacement of power pole
Broken pipe

Restricted main and heavy rain caused minor overflow

Unknown start and stop times. Times stated above are based on heaviest flows at nearest pump station. Volume was determined

Heavy rain and rock accumulation from possible main break
Paper towels
Heavy Rain

High flows due to heavy rains surcharged system

A small amount of roots caught towels flushed into the system

Large amount of paper towels and a piece of clay pipe

Plastic Gatorade bottle

Rock from a damaged section of pipe

Towels in main

Roots from a lateral
Paper towels

Roots

Roots from lateral

Plastic water bottle, some roots
Unknown. Did not find any grease, roots or debris.

Main

etermined by RP, assisted by Roy's sewer service

Main

Main

Main

Main

Main

Main

Main

Main

Main

Main

Main

Main

Main

Main

Main

Main

3.

Paper towels

4 VCP
6 VCP
6 PVC
6 vcp
8
6 vcp
6 vcp
4
6
4 cip

6 vcp
6
4 VCP
4 CI

6 vcp

8 pvc
6 vcp
6 vcp
4 Cast Iron
6 vcp
6 vcp
6 vcp

6 vcp
6 VCP
6 VCP

6 vcp

4 CIP
4 cip
6 vcp
6 VCP

6 vcp
6 vcp
6 vcp
6 VCP

10

60

60

50

50

50

60

50

50

50

75

60

75

60

Pipe repaired 12-19-07

Responded on 1-4-08 checked main all clear. Cleaned area out of house.
Repaired pipe

Cleaning service co. cleaned house

Manhole surcharged due to heavy rains. Water flowed to Corte Madera Creek which was at flood stage by storm drain B
Manhole surcharged due to heavy rains. Water flowed by storm drain to Corte Madera Creek which was at flood stage B

Overflow stopped before crew arrived.
County employee found offset pipe in easement, made a temporary repair, crew will repair 2-5-08. Only two houses on ex

Main has been replaced

Cleaned main, cleaned and posted area
Repaired pipe

Cleaned/restored building, repaired main

Repaired main

Dug to repair

12/19/2007 0:00
12/22/2007 22:00
12/23/2007 19:30

1/4/2008 2:30
1/5/2008 15:00
1/7/2008 14:15

1/8/2008 4:00
1/8/2008 11:30

1/26/2008 1:00
1/26/2008 0:00
1/28/2008 0:00
1/26/2008 13:00
1/26/2008 13:00
1/26/2008 13:00

1/26/2008 13:00
1/26/2008 0:00
2/4/2008 16:30
2/10/2008 2:15
2/11/2008 1:45
2/14/2008 12:30
2/14/2008 12:30
2/23/2008 15:00

2/25/2008 15:30

4/18/2008 0:00

5/5/2008 18:00

12/22/2008 3:00

Repaired sewer
Plan rehabilitation or replacement of sewer;Repaired sewer
Other (specify below)

Added sewer to preventive maintenance program
Repaired sewer
Added sewer to preventive maintenance program

Plan rehabilitation or replacement of sewer
Other (specify below)

Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer

Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Repaired sewer
Other (specify below)
Other (specify below)
Other (specify below)
Plan rehabilitation or replacement of sewer;Repaired sewer
Other (specify below)

Repaired sewer;Other (specify below)

Adjusted schedule/method of preventive maintenance;Other (specify below)

Plan rehabilitation or replacement of sewer

Adjusted schedule/method of preventive maintenance

Removed a scrub brush from our main, therefore corrective action is done.

Will CCTV to determine if any other action is needed

Will CCTV and locate, repair as needed

Heavy Rains, unable to collect samples

Overflow stopped before crew arrived. Owner had used a small pump to remove sewage from building to rear yard before

CCTV line for possible repairs or root intrusion.

CCTV for possible repairs

The staff has issued a work order to engineering to abandon main and provide new lateral to only house on old main. Th

will TV and repair as needed

CCTV is being performed, no results at this time Update: see attached report

Will CCTV to determine repairs needed

See attachment

No
No
No

No
No
No

Yes
Yes

No
No
No
No
No
No

No
No
No
No
Yes
No
No
Yes

Yes

Yes

No

No

n/a

N/A

n/a

No visual impact

n/a

n/a

n/a

Heavy rain, no visual impact

n/a

None

N/A

N/A

N/A

None

No visual impact

No Visual impact

n/a

No Visual impact

N/A

N/A

N/A

N/A

na

No Visual impact, heavy flow due to recent rain

n/a

n/a

N/A

n/a

n/a

n/a

n/a

No Visual damage

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

No visible impact

N/A

N/A

N/A

N/A

N/A

Yes
Yes
Yes

Yes
No
Yes

Yes
No

No
No
No
No
No
No

No
Yes
Yes
Yes
Yes
No
No
Yes

Yes

Yes

Yes

Yes

n/a
N/A
NA

n/a
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N/A
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N/A
None
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N/A
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na

n/a

n/a

N/A

n/a
N/A
NA

n/a
Fairfax creek along Olema Rd.
n/a

n/a
San Anselmo creek

Corte Madera Creek
Corte Madera Creek
Corte Madera Creek
San Anselmo Creek
San Anselmo Creek
Corte Madera Creek

Corte Madera Creek
N/A
N/A
N/A
N/A
Fairfax Creek
Fairfax creek
na

Sleepy hollow Creek

n/a

Corte Madera Creek

N/A

Small creek that flows to Corte Madera creek.

No water quality samples taken
No water quality samples taken
No water quality samples taken

No water quality samples taken
No water quality samples taken
No water quality samples taken

No water quality samples taken
No water quality samples taken

No water quality samples taken
No water quality samples taken
Not applicable to this spill
No water quality samples taken
No water quality samples taken
No water quality samples taken

No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken;Not applicable to this spill
No water quality samples taken;Not applicable to this spill
No water quality samples taken

Other (specify below)

No water quality samples taken

Other (specify below)

Biological indicator(s) - specify below

Samples have bee sent to lab, no results at this time Update: see attached report

Ammonia

Total coliforms, E.Coli, Enterococcus

None of the above
No water quality samples taken
No water quality samples taken

None of the above
None of the above
None of the above

None of the above
None of the above

None of the above
Not applicable to this spill
None of the above
None of the above
None of the above
None of the above

None of the above
None of the above
None of the above
No water quality samples taken
None of the above
Not applicable to this spill
No water quality samples taken
None of the above

Regional Water Quality Control Board

None of the above

County Health Agency;Regional Water Quality Control Board

County Health Agency

Samples have bee sent to lab, no results at this time Update: see attached report

Not yet available

80304	1/8/2008 8:40
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8862	1/28/2008 0:00
80863	1/28/2008 15:08
80856	1/28/2008 15:00
80857	1/28/2008 15:00
80858	1/28/2008 15:03
80860	1/28/2008 15:00
80861	1/28/2008 15:00
80827	1/28/2008 15:00

	2/23/2008 16:35
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81579	2/25/2008 12:42
802236	3/26/2008 9:20
82871	4/17/2008 23:35

83258	5/5/2008 9:38
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89072	12/21/2008 11:22
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2SSO10172	Active	732573 Eric Smith	Certified
2SSO10172	Active	732731 Eric Smith	Certified
2SSO10172	Active	733249 E Smith	Certified
2SSO10172	Active	733825 Eric Smith	Certified
2SSO10172	Active	733826 Eric Smith	Certified
2SSO10172	Active	733914 Eric Smith	Certified
2SSO10172	Active	733992 E Smith	Certified
2SSO10172	Active	734632 Eric Smith	Certified
2SSO10172	Active	735333 Eric Smith	Certified
2SSO10172	Active	735425 E Smith	Certified
2SSO10172	Active	735874 Eric Smith	Certified
2SSO10172	Active	735956 Eric Smith	Certified
2SSO10172	Active	736004 Eric Smith	Certified
2SSO10172	Active	736476 Eric Smith	Certified
2SSO10172	Active	736995 E Smith	Certified
2SSO10172	Active	737287 E Smith	Certified
2SSO10172	Active	737972 Eric Smith	Certified
2SSO10172	Active	738603 Eric Smith	Certified
2SSO10172	Active	740883 Eric Smith	Certified
2SSO10172	Active	741483 Eric Smith	Certified
2SSO10172	Active	742033 Eric Smith	Certified
2SSO10172	Active	742658 Eric Smith	Certified
2SSO10172	Active	743010 Eric Smith	Certified
2SSO10172	Active	744038 Eric Smith	Certified
2SSO10172	Active	744940 E Smith	Certified
2SSO10172	Active	745162 Eric Smith	Certified
2SSO10172	Active	746628 E Smith	Certified
2SSO10172	Active	746646 Eric Smith	Certified
2SSO10172	Active	746701 Eric Smith	Certified
2SSO10172	Active	746853 E Smith	Certified
2SSO10172	Active	747253 Eric Smith	Certified
2SSO10172	Active	747332 E Smith	Certified
2SSO10172	Active	747697 E Smith	Certified
2SSO10172	Active	747818 E Smith	Certified
2SSO10172	Active	748057 E Smith	Certified
2SSO10172	Active	748133 Eric Smith	Certified
2SSO10172	Active	748134 Eric Smith	Certified
2SSO10172	Active	748459 E Smith	Certified
2SSO10172	Active	748460 E Smith	Certified
2SSO10172	Active	748650 Eric Smith	Certified
2SSO10172	Active	749210 E Smith	Certified
2SSO10172	Active	749361 E Smith	Certified
2SSO10172	Active	749887 Noel Sandoval	Certified
2SSO10172	Active	750703 Dennis V Gavallos	Certified
2SSO10172	Active	750763 Randell Ishii	Certified
2SSO10172	Active	752255 Dennis Gavallos	Certified
2SSO10172	Active	752281 Dennis Gavallos	Certified
2SSO10172	Active	752284 Dennis Gavallos	Certified
2SSO10172	Active	752332 Dennis Gavallos	Certified
2SSO10172	Active	752600 dennis Gavallos	Certified
2SSO10172	Active	752811 Dennis Gavallos	Certified
2SSO10172	Active	753477 E Smith	Certified
2SSO10172	Active	754987 Jeff Yee	Certified
2SSO10172	Active	755636 Jeff Yee	Certified
2SSO10172	Active	755783 John Clark	Certified

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Supt
Supt
Senior Supervisor
Interim Maintenance Superintendent
District Engineer
Interim District Superintendent
Interim Maintenance Superintendent
Dennis Gavallos
Interim Maintenance Superintendent
Interim Maintenance Superintendent
Interim Maintenance Superintendent
Supt
Supervisor
Senior Supervisor
Chief of Operations

San Rafael	142582
San Rafael	702830
San Rafael	327874
San Rafael	158144
San Rafael	729200
San Rafael	228141
San Rafael	976083
San Rafael	620893
San Rafael	225535
San Rafael	524641
San Rafael	915015
San Rafael	590298
San Rafael	203377
San Rafael	672158
San Rafael	600110
San Rafael	483376
San Rafael	457487
San Rafael	820326
San Rafael	810602
San Rafael	148987
San Rafael	692251
San Rafael	185913
San Rafael	865931
San Rafael	825831
San Rafael	726251
San Rafael	111216
San Rafael	929537
San Rafael	863746
San Rafael	352273
San Rafael	229133
San Rafael	424550
San Rafael	863320
San Rafael	371892
San Rafael	595629
San Rafael	985620
San Rafael	183939
San Rafael	121659
San Rafael	259497
San Rafael	373416
San Rafael	928045
San Rafael	357550
San Rafael	709610
San Rafael	492397
San District No. 1	273033
	9:10 AM 527143
	14:57 470984
	15:05 447557
	14:35 649890
	15:20 632343
	11:32 392618
	13:45 998611
San Rafael	118473
San Rafael	709297
San Rafael	681716
	17:20 423473

26-Jan-09		3-Feb-09	2/3/2009
28-Jan-09		3-Feb-09	2/3/2009
9-Feb-09		14-Jun-10	6/14/2010
18-Feb-09		18-Feb-09	2/18/2009
18-Feb-09		18-Feb-09	2/18/2009
20-Feb-09		20-Feb-09	2/20/2009
23-Feb-09		23-Feb-09	6/14/2010
6-Mar-09		10-Apr-09	4/10/2009
23-Mar-09		23-Mar-09	3/23/2009
24-Mar-09		14-Jun-10	6/14/2010
2-Apr-09		2-Apr-09	4/7/2009
6-Apr-09		7-Apr-09	4/7/2009
6-Apr-09		6-Apr-09	4/6/2009
20-Apr-09		20-Apr-09	4/20/2009
30-Apr-09		14-Jun-10	6/14/2010
11-May-09		14-Jun-10	6/14/2010
26-May-09		5-Jun-09	6/5/2009
8-Jun-09		8-Jun-09	6/8/2009
9-Jul-09		9-Jul-09	7/9/2009
20-Jul-09		20-Jul-09	7/20/2009
29-Jul-09		29-Jul-09	7/29/2009
7-Aug-09		14-Jun-10	12/16/2010
13-Aug-09		25-Aug-09	8/25/2009
31-Aug-09		31-Aug-09	8/31/2009
22-Sep-09		28-Sep-09	9/28/2009
29-Sep-09		29-Sep-09	9/29/2009
6-Nov-09		14-Jun-10	6/14/2010
9-Nov-09		12-Nov-09	11/12/2009
10-Nov-09		12-Nov-09	11/12/2009
18-Nov-09		18-Nov-09	6/14/2010
2-Dec-09		2-Dec-09	12/2/2009
7-Dec-09		14-Jun-10	6/14/2010
21-Dec-09		14-Jun-10	6/14/2010
23-Dec-09		5-Jan-10	6/14/2010
31-Dec-09		5-Jan-10	6/14/2010
4-Jan-10		5-Jan-10	1/5/2010
4-Jan-10		5-Jan-10	1/5/2010
20-Jan-10		14-Jun-10	6/14/2010
20-Jan-10		14-Jun-10	6/14/2010
21-Jan-10		21-Jan-10	1/21/2010
9-Feb-10		14-Jun-10	6/14/2010
12-Feb-10		12-Feb-10	6/17/2010
26-Feb-10		1-Mar-10	3/1/2010
17-Mar-10		7-Apr-10	4/7/2010
18-Mar-10		25-Mar-10	3/25/2010
10-May-10	5/10/2010	24-May-10	5/24/2010
11-May-10	5/11/2010	24-May-10	5/24/2010
11-May-10	5/11/2010	11-May-10	5/11/2010
12-May-10	5/12/2010	24-May-10	5/24/2010
20-May-10	5/20/2010	27-May-10	5/27/2010
1-Jun-10	6/1/2010	7-Jun-10	6/7/2010
17-Jun-10	6/17/2010	17-Jun-10	6/17/2010
15-Jul-10	7/15/2010	15-Jul-10	7/15/2010
30-Jul-10	7/30/2010	30-Jul-10	7/30/2010
5-Aug-10	8/5/2010	19-Oct-10	10/19/2010

Category 2	1822	100
Category 3	80	0
Category 3	450	0
Category 3	120	0
Category 3	20	0
Category 3	27	0
Category 3	100	0
Category 3	24	0
Category 3	50	25
Category 1	400	100
Category 3	15	0
Category 1	4937	225
Category 3	150	100
Category 3	40	0
Category 3	300	0
Category 3	600	0
Category 3	50	0
Category 3	250	250
Category 3	50	50
Category 3	50	0
Category 3	936	0
Category 1	470	0
Category 3	177	0
Category 3	23	0
Category 3	600	0
Category 3	50	50
Category 3	300	0
Category 3	90	0
Category 3	25	0
Category 3	50	0
Category 3	30	30
Category 3	600	600
Category 3	180	50
Category 3	200	50
Category 3	20	0
Category 3	200	0
Category 3	300	0
Category 1	900	50
Category 1	900	50
Category 1	1	0
Category 3	25	0
Category 3	150	0
Category 3	50	0
Category 1	200	50
Category 3	25	3
Category 3	25	0
Category 3	25	0
Category 2	1150	0
Category 3	75	0
Category 1	200	0
Category 3	100	10
Category 3	50	50
Category 3	20	20
Category 3	50	50
Category 3	75	75

0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
300 Yes	Yes
0 No	No
4712 No	Yes
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	Yes
0 No	Yes
0 No	No
0 No	No
5 Yes	Yes
0 No	No
0 No	No
0 No	No
0 No	Yes
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	Yes
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
500 Yes	Yes
850 Yes	Yes
1 Yes	Yes
0 No	No
0 No	No
0 No	No
150 Yes	Yes
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
200 Yes	Yes
0 No	No
0 No	Yes
0 No	No
0 No	No
0 No	Yes

[illegible]

260 Crescent
832 Fawn
644 Bolinas
635 Goodhill
10 Canyon Ross
5 Palm Ct.
8 Ivy Ln
135 Crown
931 Bolinas Rd
100 Red Hill
52 Woodside Dr.
20 Skyland
673 Magnolia
83 Hatzic Ct
7 Woodhaven
5 Palm
51 Woodland
SF Drake & SA Ave
2100 SF Drake
56 Jordan
119 Crown Rd
167 Scenic
29 Ridgecrest
91 Forrest
88 Wellington
351 Olema Rd
78 Chester
564 Scenic
49 summit
31 corte Placida
14 Geary Ave
66 Maple
39 Wreden Ave.
21 Raven Rd.
506 Sequoia Dr.
19 Bretano Way
309 Via La Paz
410 William
2 Los Cerros
991 Butterfield
80 Baywood Ave.
5 Circle Dr. Ross
33 Woodhaven Rd.
440 Woodland Rd.
110 Winding Way
8 Ivy Ln.
3 Rocca Dr.
370 Via La Cumbre
14 garden Way
62 Valley Rd.
14 Elm Ct.
94 Forrest
639 Magnolia Ave. Larkspur
475 South Eliseo Drive
1100 South Eliseo Drive.

37.9726	122.5666 Marin
37.9982	122.5643 Marin
37.9742	-122.5995 Marin
37.9623	122.5389 Marin
37.9676	122.5498 Marin
37.932	122.5303 Marin
37.9777	-122.58 Marin
37.9478	-122.5701 Marin
37.9744	-122.6155 Marin
37.9767	-122.5528 Marin
37.9962	-122.5782 Marin
37.944	-122.5461 Marin
37.9401	-122.5372 Marin
37.9804	-122.5895 Marin
37.9665	-122.5728 Marin
37.923	-122.5301 Marin
37.9502	-122.5223 Marin
37.9866	-122.5769 Marin
37.9887	-122.591 Marin
37.97911	-122.55571 Marin
37.94718	-122.57055 Marin
37.99015	-122.59903 Marin
37.94239	-122.55887 Marin
37.98256	-122.58119 Marin
37.96968	-122.55666 Marin
37.99925	-122.60333 Marin
37.99147	-122.58549 Marin
37.97755	-122.581245 Marin
37.979675	-122.579814 Marin
37.951754	-122.511923 Marin
37.98912	-122.58809 Marin
37.99053	-122.58463 Marin
37.9305	-122.55214 Marin
38.00751	-122.58068 Marin
37.98233	-122.55689 Marin
37.94839	-122.52706 Marin
37.95223	-122.52051 Marin
37.93419	-122.5287 Marin
37.949134	-122.525427 Marin
38.06613	-122.57742 Marin
37.96938	-122.55411 Marin
37.96546	-122.56373 Marin
37.946598	-122.550356 Marin
37.95122	-122.56376 Marin
37.96447	-122.547507 Marin
37.97775	-122.58 Marin
37.98767	-122.58687 Marin
37.9515	-122.51114 Marin
37.93484	-122.52914 Marin
37.98495	-122.59724 Marin
37.97803	-122.57526 Marin
37.9828	-122.581189 Marin
37.93923	-122.53603 Marin
37.94436305	-122.526178 Marin
37.94430137	-122.5344987 Marin

[illegible]

Hillside below 635 Goodhill

Found by District cleaning crew in easement behind 135 Crown Rd.
Man hole in street

From a rodhole on open hillside
Man hole at San Anselmo Ave & SF Drake

In back of 119 Crown Rd. Not reported for 52 hours

In easement behind 29 Ridgecrest

Large open hillside
Apartment building driveway Captured in a private drain

In an easement in back of 31 Corte Placida. Was not overflowing on arrival. Cleaned main and area. will CCTV for repa
Manhole in street
Sewage overflowed into basement. Sump pump pumped it to the street, all was recovered from the storm drain system.
Street and hillside
MH on side of road and roadway cracks
Street
Cristy box/ check valve between district main and studio in rear of home. Studio was affected too.
RH behind home down hillside
Clean out in front yard
Manhole in intersection
Rodhole in street
Baby MH on road in front of a garage.
Spill coming out of hillside behind homes on Circle Dr.
Street. MH4575 spilled out of pickhole. Sewage left a trail on street for about 70'. Small puddle was picked up along with 1
MH2456 overflowed due to roots and wipes on road. Restored flow using power rodder. Flushed/vacced line and street.
MH on side of road.

ejector pump clean out at edge of street
The spill was in the gutter pan
4 inch cleanout in the parking lot behind the building.
1100 South Eliseo Drive the rod hole in the back parking lot.

airs as ness.

the contaminated soil and leaves.

Other sewer system structure
Manhole
Manhole
Manhole
Manhole
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Manhole
Other sewer system structure
Manhole
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Manhole
Manhole
Manhole
Other sewer system structure
Gravity sewer
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Building or structure
Other (specify)
Manhole;Other (specify)
Manhole
Building or structure;Other (specify)
Other sewer system structure
Other sewer system structure
Manhole
Other sewer system structure
Manhole
Other (specify)
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Other (specify)
Gravity sewer
Manhole
Other (specify)
Gravity sewer
Other (specify)
Gravity sewer

Clean out

Rod hole

Rod hole, end of main

Street
cracks on road.

Christy box that housed a check valve and bathroom floor through 4 toilet flange (no toilet). Note: Contra Costa valve has
Rodhole

Found hole on hillside possibly from lateral or main. Will CCTV.

Rodhole

ejector pump clean out at edge of street

The sewage was leaking from the sidewalk and no sewage was coming out when we arrived.

4 inch cleanout in the parking lot behind the building overflowed due to both pumps running at once. Turned them off and
The spill came out of the rod hole.

Unpaved surface
Other paved surface
Unpaved surface
Unpaved surface
Street/curb and gutter;Unpaved surface
Unpaved surface
Other paved surface;Unpaved surface
Unpaved surface
Other paved surface;Unpaved surface
Storm drain;Street/curb and gutter
Unpaved surface
Unpaved surface
Street/curb and gutter;Unpaved surface
Unpaved surface
Unpaved surface
Unpaved surface
Unpaved surface
Other (specify below)
Storm drain;Street/curb and gutter
Unpaved surface
Unpaved surface
Unpaved surface
Unpaved surface
Unpaved surface
Unpaved surface
Storm drain;Street/curb and gutter
Unpaved surface
Unpaved surface
Unpaved surface
Unpaved surface
Street/curb and gutter
Building or structure;Storm drain;Street/curb and gutter
Street/curb and gutter;Other (specify below)
Street/curb and gutter
Street/curb and gutter
Building or structure;Other (specify below)
Other (specify below)
Storm drain;Street/curb and gutter;Surface water;Unpaved surface
Other paved surface;Storm drain;Surface water
Storm drain;Street/curb and gutter;Surface water
Street/curb and gutter;Other (specify below)
Other (specify below)
Street/curb and gutter;Unpaved surface
Storm drain;Other (specify below)
Other (specify below)
Unpaved surface
Unpaved surface
Unpaved surface
Unpaved surface
Surface water
Unpaved surface
Storm drain;Street/curb and gutter
Street/curb and gutter
Other (specify below)
Storm drain

Land
Dried on street

All was recovered

Open hillside

Hillside

Rear yard
Hillside

Small amount made it to land next to garage.
Hillside

Tamalpais creek
Small amount of soil around MH

Sewage was contained in the parking lot due to the curb.
The sewage was captured in the storm drain.

1/25/2009 12:00	1/26/2009 9:35	1/26/2009 10:00	1/26/2009 9:35
1/27/2009 21:45	1/27/2009 9:45	1/27/2009 22:45	1/27/2009 23:00
2/6/2009 10:00	2/6/2009 10:00	2/6/2009 10:10	2/6/2009 10:35
2/16/2009 15:25	2/16/2009 15:25	2/16/2009 16:18	2/16/2009 16:25
2/14/2009 14:22	2/14/2009 14:22	2/14/2009 15:05	2/14/2009 15:10
2/19/2009 12:30	2/19/2009 12:30	2/19/2009 12:50	2/19/2009 13:30
2/21/2009 10:55	2/21/2009 10:55	2/21/2009 0:00	2/21/2009 12:15
3/5/2009 13:30	3/5/2009 13:30	3/5/2009 13:50	3/5/2009 15:00
3/22/2009 8:40	3/22/2009 8:40	3/22/2009 10:00	3/22/2009 10:05
3/24/2009 11:40	3/24/2009 11:40	3/24/2009 12:50	3/24/2009 12:00
4/1/2009 14:55	4/1/2009 14:55	4/1/2009 15:15	4/1/2009 16:00
4/4/2009 10:30	4/4/2009 12:30	4/4/2009 13:40	4/4/2009 15:30
4/3/2009 12:50	4/3/2009 12:50	4/3/2009 13:00	4/3/2009 13:15
4/19/2009 15:15	4/19/2009 15:15	4/19/2009 16:00	4/19/2009 5:00
4/27/2009 14:00	4/27/2009 14:00	4/27/2009 14:15	4/27/2009 15:15
5/9/2009 1:00	5/10/2009 20:35	5/10/2009 21:25	5/10/2009 22:25
5/21/2009 9:00	5/21/2009 9:00	5/21/2009 9:15	5/21/2009 0:00
6/7/2009 12:50	6/7/2009 12:50	6/7/2009 13:40	6/7/2009 14:45
7/6/2009 9:50	7/6/2009 9:50	7/6/2009 10:00	7/6/2009 10:00
7/19/2009 17:20	7/19/2009 17:20	7/19/2009 18:30	7/19/2009 18:45
7/25/2009 8:30	7/27/2009 11:30	7/27/2009 11:30	7/27/2009 12:00
8/6/2009 22:00	8/7/2009 10:00	8/7/2009 10:15	8/7/2009 10:30
8/13/2009 11:20	8/13/2009 11:20	8/13/2009 11:35	8/13/2009 12:25
8/28/2009 11:45	8/28/2009 11:45	8/28/2009 12:15	8/28/2009 13:00
9/21/2009 16:20	9/21/2009 16:20	9/21/2009 17:20	9/21/2009 17:45
9/28/2009 19:25	9/28/2009 19:25	9/28/2009 20:30	9/28/2009 21:30
11/4/2009 9:45	11/4/2009 14:00	11/5/2009 10:00	11/5/2009 10:30
11/8/2009 11:20	11/8/2009 11:20	11/8/2009 12:20	11/8/2009 12:35
11/8/2009 12:00	11/9/2009 9:15	11/9/2009 9:35	11/9/2009 9:50
11/16/2009 7:55	11/16/2009 7:55	11/16/2009 8:15	11/16/2009 8:55
11/29/2009 21:55	11/29/2009 21:55	11/29/2009 22:45	11/29/2009 23:15
12/5/2009 20:45	12/5/2009 20:45	12/5/2009 21:45	12/5/2009 22:00
12/19/2009 14:20	12/19/2009 14:20	12/19/2009 15:00	12/19/2009 15:20
12/22/2009 8:00	12/22/2009 13:50	12/22/2009 14:00	12/22/2009 14:20
12/31/2009 9:00	12/31/2009 9:30	12/31/2009 9:50	12/31/2009 10:00
1/2/2010 16:50	1/2/2010 16:50	1/2/2010 17:20	1/2/2010 20:30
1/4/2010 13:25	1/4/2010 13:25	1/4/2010 13:45	1/4/2010 14:30
1/19/2010 9:45	1/19/2010 12:15	1/19/2010 12:45	1/19/2010 12:45
1/18/2010 15:30	1/18/2010 15:30	1/18/2010 16:15	1/18/2010 16:20
1/20/2010 12:00	1/21/2010 9:00	1/21/2010 9:45	1/20/2010 9:01
2/8/2010 11:15	2/8/2010 11:15	2/8/2010 11:30	2/8/2010 12:00
2/9/2010 15:30	2/9/2010 16:45	2/9/2010 17:45	2/10/2010 9:30
2/26/2010 9:05	2/26/2010 9:05	2/26/2010 9:25	2/26/2010 9:30
3/16/2010 11:00	3/16/2010 11:00	3/16/2010 11:20	3/16/2010 11:40
3/16/2010 9:00	3/16/2010 9:00	3/16/2010 9:00	3/16/2010 9:00
5/8/2010 10:00	5/8/2010 10:00	5/8/2010 11:15	5/8/2010 12:15
5/10/2010 9:05	5/10/2010 9:05	5/10/2010 9:45	5/10/2010 9:55
4/21/2010 1:00	4/22/2010 13:20	4/22/2010 13:20	4/22/2010 13:40
5/11/2010 13:55	5/11/2010 13:55	5/11/2010 14:00	5/11/2010 14:45
5/20/2010 12:45	5/20/2010 12:45	5/20/2010 12:45	5/20/2010 14:00
5/29/2010 14:20	5/29/2010 14:20	5/29/2010 14:45	5/29/2010 15:10
6/16/2010 7:10	6/16/2010 7:25	6/16/2010 8:00	6/16/2010 8:15
7/14/2010 2:00	7/14/2010 2:50	7/14/2010 3:00	7/14/2010 3:10
7/29/2010 2:45	7/29/2010 2:45	7/29/2010 2:45	7/29/2010 2:46
8/4/2010 9:55	8/4/2010 10:55	8/4/2010 11:15	8/4/2010 11:30

Root intrusion
Root intrusion
Root intrusion
Root intrusion
Root intrusion
Root intrusion
Debri-Rags
Debri-Rags
Root intrusion
Grease deposition (FOG)
Other (specify below)
Debri-Rags
Debri-Rags
Root intrusion
Debri-Rags
Root intrusion
Pipe structural problem/failure
Root intrusion
Other (specify below)
Other (specify below)
Debri-Rags
Debri-Rags
Root intrusion
Debri-Rags
Pipe structural problem/failure
Grease deposition (FOG)
Root intrusion
Debri-Rags
Debri-Rags
Root intrusion
Root intrusion
Root intrusion
Root intrusion
Vandalism
Other (specify below)
Root intrusion
Other (specify below)
Flow exceeded capacity
Debri-Rags
Other (specify below)
Debri-Rags
Other (specify below)
Root intrusion
Root intrusion
Other (specify below)
Debri-General
Root intrusion
Other (specify below)
Root intrusion
Other (specify below)
Other (specify below)
Debri-General
Root intrusion
Other (specify below)
Grease deposition (FOG)

Roots and towels
Towels/Rags

Rags and rock

Operator found roots he felt were from a lateral
Grease, rags

Failed pipe

While cleaning the main grease blocked the line causing it to overflow for a short time
Unable to determine

Manhole was not overflowing on arrival. Sewage was contained to low spot in gutter pan. Removed with Vac truck. CCT

Rock / debris

Roots from lateral- Resident told us that days prior a plumber had worked on getting a lateral cleared upstream. We broke
Cannot write in box 46
Some root intrusion but LOTS of wipes

Cleaned mains in area, no blockage.

Found hole on hillside where sewage came out. Also found a 4 in-line CO that had the cap off and full of dirt and rock. Bl
Also pulled many wipes
Root intrusion and wipes
4 test plug and small amount of roots.

Mouth of Manhole blocked by debris from private lateral blockage and Wipes

Root Intrusion and collapsed pipe
Rocks, wipes and rags

Cleared the blockage with hand rods and a 4 inch square bar removed roots. Couldn't get a 6 inch square bar through hit
Ran 2 pumps at once and it came out of the 4 inch cleanout. Turned off both pumps and it stopped immediately.
The spill cause was grease,wipes and tampons.

Main
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Main

Main
Main
Other (specify below)
Main

Private lateral

Still cannot write in box 46.

Wipes bunched up at base of baby MH and caused a partial blockage.

On 2-16-10 line was tv'd and found drainage above our main had undermined our pipe and it fell. Pipe was repaired.

Somebody lost their test plug down their lateral and into our main.

Root Intrusion and slide caused collapse in main

The failure occurred because of running 2 pumps at the same time.

The blockage was 60 feet from the rod hole.

6 vcp
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vcp
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4 CIP
6 VCP
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4 CIP
8 CIP
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6 VCP
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4 C. I.
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5 VCP
4 C.I.
6 VCP
6 V.C.P.
6 VCP

6 VCP
6 VCP
4 Cast iron
VCP

85
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60
80

90
50
50

Repaired main
Posted area

Cleaned storm drain, recovered 100 gallons
Posted area

Will TV to locate cause

Cleared main, broke blockage. Cleaned hillside area. Posted warning signs. Main is being CCTV'ed 9-22-09
Broke blockage, cleaned area. cleaned drain line and recovered all of the sewage

Manhole was not overflowing on arrival, area was damp. Cleaned main cleaned area.
Not a full on blockage, restricted main

Broke blockage with a rodder. Used Vac-Con to hose down street and vac up

Hauled off contaminated gravel. Cleaned small out building
RH looked to be overflowing during peak flows. Broke root/wipe blockage at base of RH. Hand rodged all easment. Clear

Baby MH was not overflowing when we arrived. Broke a partial wipes blockage at base of MH. Hosed down area into MH
Will CCTV week of 2-15-10. Note: Operator arrived on 2-9-10 and could not break blockage due to a car parked over MH
Rodded from MH4575 to MH4498. Removed roots and wipes. MH leaked out of pickhole and street was wet for about 70'
Broke blockage with power rodder. Hosed down and vacced up road. Took samples and posted signs.
Restored flow with a power rodder and removed a 4 test plug that caused partial blockage. Hosed grey matter into MH an

Spill was reported late due to a misscommunication from field staff to management staff. This is the first report submitted

Repaired collapsed main

Private ejector pump overflowed at cleanout due to congestion in District main. Crew was able to recover all of the overf

Vacuumed up all the sewage that came out with the Vac Con. Recovered all 50 gallons.
We used the Vac Con to suck up all the sewage that was captured in the storm drain.

1/26/2009 14:00

3/24/2009 13:20

4/5/2009 13:30

8/7/2009 0:00

1/19/2010 17:30

1/19/2010 12:00

1/21/2010 14:00

3/16/2010 14:20

4/22/2010 14:00

5/20/2010 15:30

Adjusted schedule/method of preventive maintenance;Other (specify below)

Adjusted schedule/method of preventive maintenance

Adjusted schedule/method of preventive maintenance

Other (specify below)

Other (specify below)

Adjusted schedule/method of preventive maintenance

Plan rehabilitation or replacement of sewer

Other (specify below)

Added sewer to preventive maintenance program

Repaired sewer

Will apply root control foam program. Re-check in three months

Will TV for problem/repair

Future C I P

Cleared main, were only able to collect 50 gallons. Posted area

R P reported that on 1-20-10 at noon she noticed an overflow from a rod hole. The District was notified until 1-21-10 at 0

made work order to CCTV line for possible repairs.

Yes

Yes

Yes

Yes

No
No
No

Yes

No
No

Heavy rain, no visual impact
No visible impact, heavy rain
No visual impact. Heavy rain.

N/A

N/A

Yes

Yes

No

Yes

Yes
Yes
No

Yes

Yes

Yes

N/A

N/A

N/A

N/A

N/A
N/A
N/A

N/A

N/A

NA

N/A

San Anselmo creek

N/A

5 gallons flowed into dry creek bed, unable to collect samples

N/A
Corte Madera Creek
Sleepy Hollow Creek

Tamalpais creek

N/A

NA

Not applicable to this spill

Biological indicator(s) - specify below

No water quality samples taken

No water quality samples taken

Other chemical indicator(s) - specify below

Other chemical indicator(s) - specify below

No water quality samples taken

Biological indicator(s) - specify below

No water quality samples taken

Biological indicator(s) - specify below

Enterococcus

N/A

Samples were taken, informed by Rob Turner at M.C.E.H. that that samples were not required due to the heavy rain sam
Samples were taken, informed by Rob Turner at M.C.E.H. they would not be tested due to rains, samples were discarded

Total coliforms, E.coli, and Enterococcus-seacalis

Coliform/E. coli Enterococcus

None of the above

County Health Agency

None of the above

None of the above

County Health Agency
County Health Agency
None of the above

County Health Agency

No water quality samples taken

County Health Agency

5 gallons flowed into dry creek bed, unable to collect samples

Samples were taken, informed by Rob Turner at M.C.E.H. that that samples were not required due to the heavy rain sam
Samples were taken, informed by Rob Turner at M.C.E.H. they would not be tested due to rains, samples were discarded

bles were discarded.

90772	1/26/2009 11:30
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92487	3/24/2009 13:40
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92749	4/4/2009 17:33
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95515	8/7/2009 11:15
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100434	1/19/2010 18:15
100374	1/18/2010 17:19
10530	1/21/2010 13:05

101826	3/16/2010 13:20
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102530	4/22/2010 13:54
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103145	5/20/2010 15:10
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2SSO10172	Active	755909 Jeffrey R. Yee	Certified
2SSO10172	Active	756133 Dennis V Gavallos	Certified
2SSO10172	Active	756513 Jeffrey R. Yee	Certified
2SSO10172	Active	757152 Eric Smith	Certified
2SSO10172	Active	757314 Eric Smith	Certified
2SSO10172	Active	757448 Dennis Gavallos	Certified
2SSO10172	Active	757452 Eric Smith	Certified
2SSO10172	Active	757461 Eric Smith	Certified
2SSO10172	Active	757669 Eric Smith	Certified
2SSO10172	Active	758075 Jeffrey R. Yee	Certified
2SSO10172	Active	758212 Eric Smith	Certified
2SSO10172	Active	758513 Jeffrey R. Yee	Certified
2SSO10172	Active	758935 Eric Smith	Certified
2SSO10172	Active	759126 Eric Smith	Certified
2SSO10172	Active	759155 Eric Smith	Certified
2SSO10172	Active	759156 Eric Smith	Certified
2SSO10172	Active	759420 Eric Smith	Certified
2SSO10172	Active	759634 John Clark	Certified
2SSO10172	Active	759835 John Clark	Certified
2SSO10172	Active	759894 Jeffrey R. Yee	Certified
2SSO10172	Active	760006 Jeffrey R. Yee	Certified
2SSO10172	Active	760012 Jeffrey R. Yee	Certified
2SSO10172	Active	760936 Jeffrey R. Yee	Certified
2SSO10172	Active	761360 Jeffrey R. Yee	Certified
2SSO10172	Active	761622 Jeffrey R. Yee	Certified
2SSO10172	Active	761989 Jeffrey R. Yee	Certified
2SSO10172	Active	761997 Jeffrey R. Yee	Certified
2SSO10172	Active	762544 Jeffrey R. Yee	Certified
2SSO10172	Active	762781 Jeffrey R. Yee	Certified
2SSO10172	Active	763774 Jeffrey R. Yee	Certified
2SSO10172	Active	763775 Jeffrey R. Yee	Certified
2SSO10172	Active	763871 Jeffrey R. Yee	Certified
2SSO10172	Active	764011 Jeffrey R. Yee	Certified
2SSO10172	Active	764085 Jeffrey R. Yee	Certified
2SSO10172	Active	764435 Jeffrey R. Yee	Certified
2SSO10172	Active	764654 Jeffrey R. Yee	Certified
2SSO10172	Active	764717 Jeffrey R. Yee	Certified
2SSO10172	Active	764791 Jeffrey R. Yee	Certified
2SSO10172	Active	764805 Jeffrey Yee	Certified
2SSO10172	Active	764875 Jeffrey R. Yee	Certified
2SSO10172	Active	765382 Dennis Gavallos	Certified
2SSO10172	Active	765667 Jeffrey R. Yee	Certified
2SSO10172	Active	765695 Jeffrey R. Yee	Certified
2SSO10172	Active	766649 Stephen Miksis	Certified
2SSO10172	Active	766947 Stephen Miksis	Certified
2SSO10172	Active	767448 Stephen Miksis	Certified
2SSO10172	Active	767548 Stephen Miksis	Certified
2SSO10172	Active	767874 Stephen Miksis	Certified
2SSO10172	Active	769653 Stephen Miksis	Certified
2SSO10172	Active	769754 Stephen Miksis	Certified
2SSO10172	Active	772169 Stephen Miksis	Certified
2SSO10172	Active	772277 Stephen Miksis	Certified
2SSO10172	Active	772396 Stephen Miksis	Certified
2SSO10172	Active	772816 Stephen Miksis	Certified
2SSO10172	Active	774399 John Clark	Certified

San Rafael	340911
San Rafael 08:40	383943
San Rafael	658313
San Rafael	351159
San Rafael	266033
RVSD	826304
San Rafael	891167
San Rafael	444165
San Rafael	671341
San Rafael	749292
San Rafael	321496
San Rafael	600544
San Rafael	835880
San Rafael	705349
San Rafael	348649
San Rafael	763830
San Rafael	710935
	12:45 858212
	14:30 645272
San Rafael	646567
San Rafael	274965
San Rafael	194529
San Rafael	562507
San Rafael	174771
San Rafael	255162
San Rafael	788631
San Rafael	740938
San Rafael	340706
San Rafael	480676
San Rafael	905183
San Rafael	516140
San Rafael	677356
San Rafael	594837
San Rafael	705552
San Rafael	993271
San Rafael	257449
San Rafael	437906
San Rafael	926034
San Rafael	389453
San Rafael	678349
RVSD	661923
San Rafael	685846
San Rafael	881591
San Rafael	314286
San Rafael	674237
San Rafael	408813
San Rafael	296177
San Rafael	219930
San Rafael	620674
San Rafael	361664
San Rafael	577869
San Rafael	300674
San Rafael	175840
San Rafael	934463
	9:30 820049

9-Aug-10	8/9/2010	9-Aug-10	8/9/2010
18-Aug-10	8/18/2010	18-Aug-10	8/18/2010
1-Sep-10	9/1/2010	1-Sep-10	9/1/2010
24-Sep-10	9/24/2010	24-Sep-10	9/24/2010
4-Oct-10	10/4/2010	4-Oct-10	10/4/2010
7-Oct-10	10/7/2010	7-Oct-10	3/29/2011
7-Oct-10	10/7/2010	7-Oct-10	10/7/2010
8-Oct-10	10/8/2010	8-Oct-10	10/8/2010
13-Oct-10	10/13/2010	14-Oct-10	10/14/2010
22-Oct-10	10/22/2010	22-Oct-10	10/22/2010
28-Oct-10	10/28/2010	28-Oct-10	10/28/2010
12-Nov-10	11/12/2010	12-Nov-10	11/12/2010
29-Nov-10	11/29/2010	29-Nov-10	11/29/2010
6-Dec-10	12/6/2010	8-Dec-10	12/8/2010
7-Dec-10	12/7/2010	7-Dec-10	12/7/2010
7-Dec-10	12/7/2010	7-Dec-10	12/7/2010
15-Dec-10	12/15/2010	15-Dec-10	12/15/2010
20-Dec-10	12/20/2010	23-Dec-10	12/20/2011
23-Dec-10	12/23/2010	23-Dec-10	12/20/2011
27-Dec-10	12/27/2010	27-Dec-10	12/27/2010
30-Dec-10	12/30/2010	30-Dec-10	12/30/2010
30-Dec-10	12/30/2010	30-Dec-10	12/30/2010
12-Jan-11	1/12/2011	12-Jan-11	1/12/2011
18-Jan-11	1/18/2011	18-Jan-11	1/18/2011
21-Jan-11	1/21/2011	21-Jan-11	1/21/2011
26-Jan-11	1/26/2011	26-Jan-11	1/26/2011
26-Jan-11	1/26/2011	26-Jan-11	1/26/2011
7-Feb-11	2/7/2011	7-Feb-11	2/7/2011
9-Feb-11	2/9/2011	9-Feb-11	2/9/2011
25-Feb-11	2/25/2011	25-Feb-11	2/25/2011
25-Feb-11	2/25/2011	25-Feb-11	2/25/2011
28-Feb-11	2/28/2011	28-Feb-11	2/28/2011
4-Mar-11	3/4/2011	4-Mar-11	3/4/2011
7-Mar-11	3/7/2011	7-Mar-11	3/7/2011
16-Mar-11	3/17/2011	17-Mar-11	3/17/2011
22-Mar-11	3/23/2011	23-Mar-11	3/23/2011
23-Mar-11	3/23/2011	23-Mar-11	3/23/2011
24-Mar-11	3/24/2011	24-Mar-11	3/24/2011
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29-Mar-11	3/29/2011	5-Apr-11	4/5/2011
12-Apr-11	4/12/2011	13-Apr-11	4/13/2011
20-Apr-11	4/20/2011	20-Apr-11	4/26/2011
21-Apr-11	4/21/2011	21-Apr-11	4/21/2011
18-May-11	5/18/2011	18-May-11	5/18/2011
27-May-11	5/27/2011	27-May-11	5/27/2011
14-Jun-11	6/14/2011	14-Jun-11	11/14/2011
16-Jun-11	6/16/2011	16-Jun-11	6/16/2011
27-Jun-11	6/27/2011	27-Jun-11	6/27/2011
10-Aug-11	8/10/2011	10-Aug-11	8/10/2011
12-Aug-11	8/12/2011	12-Aug-11	8/12/2011
18-Oct-11	10/18/2011	18-Oct-11	10/18/2011
24-Oct-11	10/24/2011	24-Oct-11	10/24/2011
26-Oct-11	10/26/2011	26-Oct-11	10/26/2011
7-Nov-11	11/7/2011	7-Nov-11	11/7/2011
20-Dec-11	12/20/2011	9-Jan-12	11/21/2012

Category 3	150	150
Category 3	50	0
Category 1	200	0
Category 3	120	0
Category 3	25	5
Category 1	200	100
Category 3	200	0
Category 3	10	0
Category 2	3600	400
Category 1	8650	0
Category 3	20	0
Category 1	300	100
Category 3	10	0
Category 3	50	0
Category 3	200	55
Category 3	60	0
Category 3	100	0
Category 1	32066	24432
Category 1	58178	0
Category 2	3150	100
Category 1	600	0
Category 3	5	0
Category 3	50	5
Category 1	800	50
Category 3	200	100
Category 3	5	5
Category 3	30	5
Category 3	480	50
Category 3	20	20
Category 1	2000	0
Category 1	360	0
Category 3	30	30
Category 3	250	0
Category 3	3	0
Category 1	300	0
Category 3	20	0
Category 1	6000	0
Category 1	9000	0
Category 3	20	0
Category 1	2500	0
Category 3	150	150
Category 1	8540	0
Category 2	1500	0
Category 3	500	0
Category 3	10	10
Category 3	1	0
Category 3	1	0
Category 3	300	0
Category 3	600	0
Category 3	75	75
Category 2	1000	800
Category 3	150	150
Category 3	150	0
Category 3	50	50
Category 1	62364	0

0 No	No
0 No	No
200 Yes	Yes
0 No	No
0 No	No
100 No	No
0 No	No
0 No	No
0 No	No
8650 Yes	Yes
0 No	No
30 Yes	Yes
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
7634 Yes	Yes
58178 Yes	Yes
0 No	No
600 Yes	Yes
0 No	No
0 No	No
100 Yes	Yes
0 No	Yes
0 No	No
0 No	No
0 No	No
0 No	No
2000 Yes	No
360 Yes	No
0 No	No
0 No	No
0 No	No
300 Yes	Yes
0 No	No
6000 Yes	Yes
9000 Yes	Yes
0 No	No
2500 Yes	Yes
0 No	Yes
8540 Yes	Yes
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	Yes
0 No	No
0 No	Yes
0 No	Yes
0 No	No
62364 Yes	Yes

[illegible]

Bon Air Road and Bayview Road
11 Tree Top Way
850 South Eliseo Drive
832 Fawn Dr.
10 Madreo
57 Berkeley
599 South Eliseo
317 Via La Paz
133 Butterfield
South Eliseo
3 Heather Way
Taylor Street
123 Terrace
506 Sequoia
644 Bolinas Rd
905 Bolinas Rd
444 Scnic
Multiple locations, but first arrived at address below
Bon Air Rd and South Eliseo
38 Redwood Road
Diane Lane
557 Scenic Ave.
20 El Camino Bueno
Morningside Drive
1701 San Anselmo Ave.
Bon Air Rd. & South Eliseo Dr.
79 Berens Drive
286 Via La Paz
99 Broadmore Avenue
61 Willow Avenue
Frustuck and Coree Lane
48 Calumet
2 Oakwood Court
152 San Francisco Boulevard
2 Fairview Court
78 Mountain View Road
Broadmoor Ave
San Anselmo Avenue and San Rafael Avenue
68 Alder Ave
115 Woodside Drive
Manhole located at 100 Hawthorne
277 Tamalpais Road
30 Vista Drive.
460 Scenic Ave
Nadina Way, Greenbrae
460 Scenic
460 Scenic Ave
33 Hatzic Ct Backyard easement
Vista Grande Easement
235 San Francisco Blvd Cleanout
2107 Sir Francis Drake Blvd Cleanout
81 Corte Gracitas
95 Westwood Dr
68 Taylor Dr
Manhole # 3863

37.94524406	-122.5372657 Marin
37.951964	-122.56709 Marin
37.94493097	-122.5371218 Marin
37.9982954	-122.564399 Marin
37.98081	-122.558132 Marin
37.989796	-122.571354 Marin
37.944964	-122.530322 Marin
37.95243	-122.52045 Marin
37.99144	-122.57699 Marin
37.94354551	-122.5326122 Marin
37.93499	-122.52758 Marin
37.98186449	-122.5705271 Marin
37.995522	-122.54384 Marin
37.98222	-122.55708 Marin
37.97416	-122.59988 Marin
37.97351	-122.61481 Marin
37.98775	-122.59875 Marin
37.95296	-122.54487 Marin
37.94772	-122.53944 Marin
37.98823977	-122.5989193 Marin
37.9343093	-122.5273434 Marin
37.97758368	-122.5810752 Marin
37.96784144	-122.5571464 Marin
37.9868399	-122.5754317 Marin
37.98661208	-122.5769211 Marin
38.00533963	-122.5765481 Marin
37.94996858	-122.5435631 Marin
37.952029	-122.518971 Marin
37.98941629	-122.5732648 Marin
37.98874829	-122.5831854 Marin
37.98258714	-122.5931106 Marin
37.98039359	-122.5688691 Marin
37.99232788	-122.5795285 Marin
37.98430962	-122.5662518 Marin
37.98955971	-122.5775978 Marin
37.98547218	-122.5961962 Marin
37.98654892	-122.5746018 Marin
37.97682717	-122.564023 Marin
37.98145565	-122.5723228 Marin
37.99641	-122.58274 Marin
37.93463	-122.53807 Marin
37.98548	-122.59719 Marin
37.9612	-122.53774 Marin
37.9876	-122.59956 Marin
37.9507	-122.53052 Marin
37.97924	-122.57956 Marin
37.97924	-122.57956 Marin
37.93069	-122.55164 Marin
37.95793	-122.52887 Marin
37.9869	-122.5649 Marin
37.99095	-122.59244 Marin
37.94908	-122.51886 Marin
37.94568	-122.56428 Marin
37.98926	-122.58826 Marin
37.949083	-122.549667 Marin

[illegible]

Argonaut Construction broke the 8 inch A.C. force main and a 6 inch A.C. lateral. Sewage didn't leave the ditch.
M.H. 2460 in street.

Maggiora & Ghilotti where pumping a trench out . The hose was in the manhole when the hose came out and started pump

Front yard, clean out overflowing onto dirt area and driveway. hoosed down area, removed with Vac-Con
Clean out on side of building

4 District clean out on hillside. There was no debris, a small area around clean out was damp. Was not overflowing a th
Backyard / hillside behind 133

The District was filling up the 36 inch force main after being worked on all summer. The force main might have come app

Manhole was overflowing in the street.

Manhole in dirt area

Hillside in back of 506 Sequoia

This blockage was caused by the surcharge from blockage we broke upstream on 905 Bolinas. Had Vac-on crew clean up
Man hole in street

Open hillside below 444 Scenic

5 Stadium Way, Kentfield 221 McAllister Ave, Kentfield Pump Station 15 Kentfield, MH# 2516

Berm at Pit 5

Overflow was coming out of a 4 inch cleanout.

City of Larkspurs storm water pumps were clogged causing pump station 30 to be inundated in 2 feet of storm water.

Upon arrival at the location the manhole was not overflowing, the area was dry.

Yard/Land

The spill was coming out underneath the sidewalk.

The spill was coming out of a manhole.

The spill came out of an area that where Maggiora & Ghilotti had worked on.

The spill came out of a rod hole.

4 inch cleanout in the backyard of 286 Via La Paz overflowed.

4 inch cleanout in the front yard of 99 Broadmore Avenue had overflowed. Sewage was standing in the cleanout.

4 inch cleanout for 61 Willow Avenue was overflowing.

Manhole overflowed in the intersection.

Baby manhole in the driveway of 48 Calumet Avenue overflowed.

4 inch cleanout on the hillside overflowed. Category 2

3 gallons came out of the rod hole.

.Manhole in the intersection of Fairview Court and Butterfield Road was overflowing.

The overflow came out of the 4 inch cleanout in the front yard and went into the dirt.

Intersection of Braodmoor Ave and Morningside Dr. , San Anselmo

The manhole overflowed out of the pick hole in the intersection of San Anselmo Ave. and San Rafael Ave.

Spill location was from cleanout in the backyard of 68 Alder.

Overflowing manhole on common driveway 115 Woodside Dr.

Manhole at the intersection had a partial blockage.

6 inch sewer main on the hillside came apart at a joint due to a mudslide. 6 inch sewer main repaired temporarily at the bi

6 inch sewer line was broken on the hillside. A tree root popped the top of the pipe at the hub. Rocks and mud plugged th

A landslide occured due to water main and pushed the road out along with our sewer. Sewer was seeping slowly out from

There was a rod hole with a wooden box around it. There was standing sewer in the line but way not high enough at the ti

Temporary bypass was installed due to slide area. Water Dept called in a minor leak from a coupling. The on call worker

Slide area that is taking out the street

Easement behind house had a manhole that had sewer coming out of it. We have multiple pictures upon request

Easement had sewage coming throught the ground about 150 feet from the upstream manhole.

Cleanout right next to the street was seeping out liquid through the pic hole.

Spill came out of a cleanout.

Manhole was overflowing minimally.

Liquid came out of our manhole and entered a storm drain line that was broken downstream so the liquid was isolated the

Spill occured in a broken line in the basement of the house. The rooter tech also pulled a major amount of roots from the

Manhole at College and Magnolia

ping into the storm drain.

e time crew arrived. The line was not bl
art between the new pipe that was conn

› area and put out signs. About 200 galk

ottom of 277 Tamalpias Road Fairfax.
e line.
› the asphalt. No sewer was seen comir
ime drain down the hillside. A partial bl
^ said that the pipe was most likely move

re.
private lateral and not the main.

Force main or pressure sewer
Manhole
Other (specify)
Manhole
Manhole
Other sewer system structure
Other (specify)
Other sewer system structure
Other (specify)
Force main or pressure sewer
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Other sewer system structure
Force main or pressure sewer
Other (specify)
Manhole
Manhole
Other (specify)
Other (specify)
Manhole
Force main or pressure sewer
Gravity sewer
Gravity sewer
Other (specify)
Gravity sewer
Manhole
Manhole
Other sewer system structure
Other sewer system structure
Manhole
Other sewer system structure
Gravity sewer
Manhole
Other sewer system structure
Manhole
Manhole
Gravity sewer
Gravity sewer
Gravity sewer
Gravity sewer
Gravity sewer
Gravity sewer
Gravity sewer
Manhole
Gravity sewer
Gravity sewer
Gravity sewer
Manhole
Manhole
Other (specify)
Manhole

The hose came out of the manhole and then pumped into the storm drain.

Clean out

Clean out

Clean out

Spill was coming out the ground

manhole and cleanouts.

Overflow was coming out of a 4 inch cleanout.

4 inch cleanout and the ground.

The spill was coming out underneath the sidewalk.

District 4 inch cleanout in the backyard of 286 Via La Paz overflowed.

4 inch cleanout in the front yard of 99 Broadmore Avenue had overflowed.

The other sewer system structure was a 4 inch cleanout for 2 Oakwood Court. Category 2

3 gallons overflowed out of a rodhole.

Manhole in the intersection of Fairview Court and Butterfield Road was overflowing.

The overflow came out of the 4 inch cleanout.

The manhole overflowed out of the pick hole in the intersection of San Anselmo Ave. and San Rafael Ave.

4 inch cleanout from 68 Alder

Overflowing manhole

The spill made a hole in the ground due to mudslide at the bottom of the property of 277 Tamalpias Road Fairfax.

6 inch sewer line was broken on the hillside. A tree root popped the top of the pipe at the hub. Rocks and mud plugged the Road

From a pipe joint behind the shear band

Suds were seen coming through the asphalt.

Cleanout by the deck of the house.

broken pipe in the basement.

Other (specify below)
Street/curb and gutter
Surface water
Street/curb and gutter;Unpaved surface
Street/curb and gutter
Unpaved surface;Other (specify below)
Unpaved surface
Unpaved surface
Unpaved surface
Storm drain;Surface water
Street/curb and gutter
Surface water
Other paved surface;Unpaved surface
Unpaved surface
Street/curb and gutter;Unpaved surface
Street/curb and gutter;Unpaved surface
Unpaved surface
Other paved surface;Unpaved surface
Surface water
Other (specify below)
Other (specify below)
Street/curb and gutter
Other (specify below)
Street/curb and gutter;Surface water
Combined storm drain (combined CS only)
Other (specify below)
Street/curb and gutter
Other (specify below)
Other (specify below)
Surface water
Surface water
Street/curb and gutter
Unpaved surface
Unpaved surface
Other (specify below)
Unpaved surface
Other (specify below)
Surface water
Other (specify below)
Surface water
Separate storm drain
Surface water
Other (specify below)
Street/curb and gutter
Other (specify below)
Other paved surface
Street/curb and gutter
Unpaved surface
Unpaved surface
Separate storm drain
Unpaved surface
Other paved surface;Separate storm drain
Unpaved surface
Other paved surface
Surface water

The sewage never left the ditch.

Concrete Driveway

The sewage came out of the street went into the storm drain then into the surface water.

Was not overflowing on arrival, area was only damp

Manhole overflowed in the street flowed into the storm drain then into the creek.

Main was not overflowing on arrival, but showed that it had, very minor. cleaned main and area around MH.

Open land

This spill possibly entered Corte Madera Creek.

Corte Madera Creek

The sewer overflowed out of a 4 inch cleanout and went into the ground.

Corte Madera Creek

Yard/ Land

The final Destination was in a storm drain that was not flowing. The crew vacuumed all of the sewage out of the storm dr

The spill flowed onto land and was vacuumed up. Samples were taken.

The final destination was around the rod hole.

The spill destination was in the dirt of backyard of 286 Via La Paz.

In the front yard of 99 Broadmore Avenue.

Fairfax Creek

Fairfax Creek

The overflow went on the side of a hill.

3 gallons overflowed out of a rodhole into dirt.

The overflow came out of the manhole went into the storm drain then into the creek.

The spill destination was in the dirt.

San Anselmo Creek

The overflow went into the San Anselmo Creek.

Soil around cleanout

The storm drain system eventually goes into the creek. The creek is 1000 feet away.

The final destination was into the creek at the bottom of the property of 277 Tamalpias Road Fairfax then into a 30 inch s
6 inch sewer line was broken on the hillside. A tree root popped the top of the pipe at the hub. Rocks and mud plugged th
Ditch

Minor spill right next to wooden box on hillside. Spill located in grass and dirt.

Minor saturation around the pipe joint.

No liquid. Only soap suds bubble out.

Area around the manhole had rags going about 12 feet around.

The end destination was in the storm drain. Our Vac Con thoroughly cleaned the DI and the downstream pipe. There wa

Concrete area in front of the door to the basement.

8/6/2010 2:00	8/6/2010 2:35	8/6/2010 3:00	8/6/2010 4:15
8/17/2010 10:50	8/17/2010 10:59	8/17/2010 11:20	8/17/2010 11:40
8/31/2010 3:30	8/31/2010 3:45	8/31/2010 4:00	8/31/2010 3:35
9/23/2010 21:30	9/23/2010 21:30	9/23/2010 23:00	9/23/2010 23:00
10/2/2010 5:25	10/2/2010 5:25	10/2/2010 6:45	10/2/2010 0:00
10/6/2010 10:25	10/6/2010 10:25	10/6/2010 10:30	10/6/2010 10:50
10/5/2010 10:30	10/5/2010 16:40	10/5/2010 17:30	10/5/2010 18:10
10/7/2010 13:00	10/7/2010 15:00	10/7/2010 15:40	10/7/2010 15:30
10/7/2010 12:00	10/12/2010 11:00	10/12/2010 11:20	10/12/2010 12:30
10/22/2010 11:48	10/22/2010 11:48	10/22/2010 11:48	10/22/2010 12:30
10/25/2010 14:40	10/25/2010 14:40	10/25/2010 15:00	10/25/2010 15:15
11/10/2010 16:30	11/10/2010 16:40	11/10/2010 17:30	11/10/2010 18:00
11/27/2010 11:00	11/27/2010 11:00	11/27/2010 11:55	11/27/2010 11:55
12/3/2010 8:50	12/3/2010 8:50	12/3/2010 9:00	12/3/2010 9:40
12/6/2010 12:45	12/6/2010 12:45	12/6/2010 12:50	12/6/2010 12:55
12/6/2010 11:10	12/6/2010 11:10	12/6/2010 11:40	12/6/2010 11:50
12/11/2010 16:00	12/11/2010 16:00	12/11/2010 17:20	12/11/2010 18:00
12/17/2010 10:43	12/17/2010 11:43	12/17/2010 16:00	12/18/2010 1:30
12/22/2010 9:18	12/22/2010 9:18	12/22/2010 9:18	12/22/2010 10:20
12/27/2010 10:55	12/27/2010 10:35	12/27/2010 10:55	12/27/2010 11:15
12/28/2010 21:30	12/28/2010 21:30	12/28/2010 21:30	12/28/2010 23:30
12/29/2010 15:30	12/29/2010 15:45	12/29/2010 16:00	12/29/2010 17:45
1/10/2011 13:50	1/10/2011 13:50	1/10/2011 14:00	1/10/2011 14:45
1/17/2011 12:00	1/17/2011 2:30	1/17/2011 15:10	1/17/2011 15:20
1/21/2011 6:30	1/21/2011 7:05	1/21/2011 7:45	1/21/2011 8:30
11/29/2010 9:25	11/29/2010 9:30	11/29/2010 9:30	11/29/2010 9:45
1/21/2011 9:00	1/25/2011 8:30	1/25/2011 9:00	1/25/2011 9:10
2/4/2011 15:00	2/5/2011 0:00	2/5/2011 14:25	2/5/2011 15:00
2/8/2011 21:00	2/8/2011 21:40	2/8/2011 22:45	2/9/2011 1:20
2/25/2011 6:00	2/25/2011 9:00	2/25/2011 9:10	2/25/2011 9:20
2/25/2011 10:15	2/25/2011 11:45	2/25/2011 11:55	2/25/2011 12:15
2/28/2011 8:15	2/28/2011 8:30	2/28/2011 10:00	2/28/2011 11:30
3/2/2011 16:45	3/2/2011 16:45	3/2/2011 17:55	3/2/2011 18:30
3/6/2011 14:45	3/6/2011 14:45	3/6/2011 15:55	3/6/2011 18:00
3/16/2011 10:00	3/16/2011 13:20	3/16/2011 13:40	3/16/2011 13:55
3/17/2011 10:20	3/17/2011 10:20	3/17/2011 10:35	3/17/2011 10:50
3/23/2011 7:29	3/23/2011 8:00	3/23/2011 8:28	3/23/2011 8:34
3/24/2011 11:34	3/24/2011 11:34	3/24/2011 11:45	3/24/2011 12:25
3/24/2011 18:15	3/24/2011 21:20	3/24/2011 19:40	3/24/2011 19:00
3/27/2011 10:05	3/27/2011 10:06	3/27/2011 11:40	3/27/2011 11:45
4/12/2011 9:00	4/12/2011 9:05	4/12/2011 9:20	4/12/2011 9:30
4/13/2011 10:00	4/20/2011 11:20	4/20/2011 11:20	4/20/2011 13:17
4/19/2011 8:00	4/21/2011 9:20	4/21/2011 9:58	4/21/2011 10:50
5/15/2011 0:00	5/15/2011 20:37	5/15/2011 21:15	5/15/2011 21:15
5/26/2011 0:00	5/26/2011 12:00	5/26/2011 12:30	5/26/2011 12:30
6/13/2011 0:00	6/13/2011 16:40	6/13/2011 17:30	6/13/2011 17:56
6/14/2011 0:00	6/14/2011 20:30	6/14/2011 21:47	6/14/2011 21:47
6/24/2011 0:00	6/24/2011 13:10	6/24/2011 13:35	6/24/2011 13:45
8/7/2011 0:00	8/9/2011 9:45	8/9/2011 9:45	8/9/2011 10:50
8/11/2011 0:00	8/11/2011 19:10	8/11/2011 20:00	8/11/2011 20:00
10/17/2011 0:00	10/17/2011 18:30	10/17/2011 20:00	10/17/2011 20:20
10/21/2011 0:00	10/21/2011 14:55	10/21/2011 15:16	10/21/2011 15:30
10/26/2011 0:00	10/26/2011 7:36	10/26/2011 8:05	10/26/2011 8:10
11/4/2011 0:00	11/4/2011 12:50	11/4/2011 13:23	11/4/2011 13:32
12/17/2010 0:00	12/18/2010 3:00	12/18/2010 3:30	12/18/2010 13:00

Other (specify below)
Debris-General
Operator error
Root intrusion
Root intrusion
Root intrusion
Debris-Rags
Debris-Rags
Debris-General
Pipe structural problem/failure
Other (specify below)
Root intrusion
Debris-General
Root intrusion
Flow exceeded capacity (Separate CS Only)
Root intrusion
Root intrusion
Other (specify below)
Pipe structural problem/failure
Root intrusion
Pump station failure
Debris-General
Root intrusion
Root intrusion
Debris-Rags
Pipe structural problem/failure
Debris-Rags
Root intrusion
Root intrusion
Surcharged pipe (Combined CS Only)
Surcharged pipe (Combined CS Only)
Debris-General
Grease deposition (FOG)
Root intrusion
Root intrusion
Root intrusion
Debris-Rags
Surcharged pipe (Combined CS Only)
Debris-General
Debris-Rags
Debris-General
Pipe structural problem/failure
Other (specify below)
Other (specify below)
Root intrusion
Other (specify below)
Pipe structural problem/failure
Other (specify below)
Pipe structural problem/failure
Pipe structural problem/failure
Debris-Rags
Root intrusion
Grease deposition (FOG)
Root intrusion
Other (specify below)

The force main was not located. Argonaut hit force main with the back hoe.
Debris-General and Rock

Wipes
Part of a brick, some roots and wipes

Wipes, small amount of roots. low flow line

Overflow was caused by surcharging after breaking an upstream blockage. Owner at 700 Bloinas had just had their later:

A combination of debris and surcharged conditions.

City of Larkspur storm drain pump was clogged causing pump station 30 to be inundated in 2 feet of storm water.
Rock was found in the system.

5 gallons per day came out of the rodhole. The line was congested with wipes. Washed the area with the Vac Con.

Root intrusion
Root intrusion

Rags and blockage 78 feet upstream from the intersection.
Surcharging manhole due to heavy rain for several hours.
Partial blockage was seen opened 150 up the line from MH 765. When crew arrived, the overflow was not occurring.
Manhole was over flowing in the driveway and a large amount of rags was pulled off the rodder blade.

6 inch sewer main on the hillside came apart at the joint due to a mudslide. 6 inch sewer main repaired temporarily at the
A tree root popped the top of the pipe at the hub. Rocks and mud plugged the line.
Land slide due to broken water main
Baby wipes and minor roots were the cause.
An above ground bypass is installed due to a slide on the street. Contractors are repairing other utilities and it is our guess
Multiple contractors are on site attempting to fix and reroute the utilities. We installed a manhole and a temporary bypass.
Some homeowner had a roofer company that cut 2 large root masses about 3 to 4 feet long that conformed to the inside of

Severe amount of rags and grease in the downstream line.

A combination of debris and surcharged conditions.

The force main and lateral was not located.

Operator error when the hose came out of the manhole. No one was watching the hose to make sure the hose was not go

City of Larkspur storm drain pump was clogged causing pump station 30 to be inundated in 2 feet of storm water.

Force main failure at full circle coupling.
Residents in the area flushed down wipes.

78 feet upstream from the manhole
Surcharging manhole due to heavy rain for several hours.

The failure occurred 90 feet upstream and will be CCTV and proper response will be made to resolve the issue.

6 inch sewer main on the hillside came apart at the joint due to a mudslide. 6 inch sewer main repaired temporarily at the
When the pipe was broken at the hub it allowed rocks and mud down the system.
Earth pushed out our mainline due to saturation

Pipe Joint

Due to a fragile situation, excavation on our sewer line was not ideal due to the shift of the earth. Our repair crew is on si

There must be a break in the line and sewage was coming out of the mainline. There are only 2 houses above the point
The problem was in the main and the backup came out the cleanout and into the christy box. It was a partial blockage in

There are multiple failures in the main line and private lateral.

ing to come out.

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6 VCP

bottom of the property of 27

te rerouting the residents late

were the blockage occurred.
which we will CCTV.

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70

ED 006495 00001080-05264

Contained all portion of spill in the ditch and returned it all in the 6 inch lateral.
Broke Blockage with power rodder and Cleaned up with combination unit.
We could not contain the spill in the storm drain due to the hige tide came into the stormdrain.
Manhole was not overflowing on arrival. Road was damp. No standing water. Cleaned main, restored flow. No debris w:
Restored flow, cleaned area with Vac truck, recovered 5 gallons

The District is fixing the problem.

Overflow was caused by surcharging after breaking an upstream blockage. Owner at 700 Bloinas had just had their later:

Storm water coming out of the manhole.

Baby manhole in the driveway overflowed due to rocks and grit. Used the Vac Con to clean out the Debris.

The surcharge stopped when rain slowed up.

The 6 inch sewer main repaired temporarily.
Cleared the blockage removed mud and rock. Dug the pipe up and fixed the problem.

Shear band was reconnected. I will personally speak with the other utility managers to make sure our pipe is safe.
I will know for sure when the road is shored and I can excavate our sewer main. Camera was unable to get past the 90 d
Material was cleaned up and blockage was removed using hand rod.
I have a repair crew replacing that section of the easement this morning.
The oncall personnel checked the downstream storm drain DI to ensure that all liquids would be contained. The downstre
3 Parcels are above the manhole. Homeowner called it in and the blockage was removed. CCTV will follow to determine

8/31/2010 3:35

10/14/2010 3:00
10/22/2010 12:30

11/10/2010 18:00

12/20/2010 12:00
12/23/2010 7:00
12/27/2010 12:00
12/28/2010 22:30

1/17/2011 15:20

2/25/2011 9:20
2/25/2011 13:30

3/16/2011 13:55

3/23/2011 8:34
3/24/2011 12:25

3/27/2011 15:30

4/20/2011 13:17
4/21/2011 10:50

10/18/2011 12:00

12/20/2010 12:00

Other (specify below)

Other (specify below)

Other (specify below)

Added sewer to preventive maintenance program

Other (specify below)

Repaired sewer

Added sewer to preventive maintenance program

Other (specify below)

Added sewer to preventive maintenance program

Added sewer to preventive maintenance program

Added sewer to preventive maintenance program

Added sewer to preventive maintenance program

Added sewer to preventive maintenance program

Plan rehabilitation or replacement of sewer

Added sewer to preventive maintenance program

Plan rehabilitation or replacement of sewer;Repaired sewer

Repaired sewer

Adjusted schedule/method of preventive maintenance;Enforcement action against FOG source;Other (specify below)

Plan rehabilitation or replacement of sewer

Water samples were taken at the source 100 feet upstream and 100 feet downstream.

Cleaned main removed blockage, clean area on hillside and around spill area by hand and with Vac truck. Removed and It was high tide when the overflow happened.

In progress, replacing and rehab sewer.

We will put this system on a 6 month machine rod maintenance program.
Talk to the City of Larkspur to start doing a maintenance program on there storm drain pump.

CCTV will be completed and proper rehabilitation will commence

Dug the 6 inch pipe up and replaced 6 feet of pipe with C 900.

Due to the severe amount of rags in the line, for a minimal section of pipe, we will notify surrounding home owners about

Yes

Yes
Yes

Yes

Yes
No
No
Yes

Yes

No
No

Yes

Yes
Yes

Yes

Yes
No

Yes

Yes

The water was flowing.

N/A

N/A

N/A

N/A

N/A

N/A

The District took 2 samples at the storm drain entering the surface water. 2 samples 100 feet upstream and 2 samples 10

N/A

30 gallons went into the creek. Took samples that night.

N/A

N/A

n/a

n/a

n/a

Health Dept. inspected Site 12/23/10

None

The surcharge went into the creek when it was raining very hard.

The District went off of when we had the last heavy rain. The ground around the area was not septic or black.

No water way was impacted.

None

None

None

None

none

None

None

Yes

No
Yes

Yes

Yes
Yes
Yes
Yes

Yes

Yes
Yes

Yes

Yes
Yes

Yes

Yes
No

Yes

Yes

Corte Madera Creek

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

n/a

n/a

n/a

None

No beaches were affected

There was no beach impacted.

No beaches were affected

None

There were no beaches impacted.

No beach was impacted.

No Beaches

No Beaches

none

None

None

None

none

None

None

Corte Madera Creek

N/A

N/A

N/A

N/A

N/A

N/A

Corte Madera Creek

N/A

San Anselmo creek

N/A

N/A

n/a

n/a

n/a

Cort Madera Creek

Corte Madera Creek and Creek Side Park

Corte Madera Creek

None

San Anselmo Creek

No water way was effected.

None

None

None

None

Fairfax Creek

Fairfax Creek

None

None

No surface water was impacted.

San Anselmo Creek

There was no impact to any surface water.

San Anselmo Creek

The name of the impacted surface water was the San Anselmo Creek.

No surface water was impacted

Sleepy Hollow Creek

None

The impacted surface water is called Fairfax Creek.

No surface water was impacted.

None

None

none

None

None

None

None

none

None

None

None

Corte Madera Creek

Other (specify below)

No water quality samples taken
Biological indicator(s) - specify below

Biological indicator(s) - specify below

Biological indicator(s) - specify below
Biological indicator(s) - specify below
Not applicable to this spill
Other (specify below)

Biological indicator(s) - specify below

Not applicable to this spill
Not applicable to this spill

No water quality samples taken

Other (specify below)
Other (specify below)

Biological indicator(s) - specify below

Other (specify below)
No water quality samples taken

Not applicable to this spill

Biological indicator(s) - specify below

Water samples were taken to CMSA and the County Health Department.

E. coli

The samples are being tested for Coliform and Fecal/EC.

Total Colif, E Colif, Enterococcus

Total Cliform, E-Coli, Enterococcus

Total Coliform, E-coil, Enterococcus

Total Coliform, E. Coil, Enterococcus

Rebecca Ng from the Marin County Health Dept. said no samples needed.

Robert Turner from Marin County Enviromental Health Services did not require a sample due to heavy and dengerous flc
Enterococcus, Total coliform, Fecal coliform

Sewer, Ecoli, choliform

The water quality samples analyzed are Total Coliform, E Coil and Enterococcus

No water samples were taken. The overflow went into the dirt.

total Colif, EColif, Enterococcus

County Health Agency

None of the above
County Health Agency

None of the above

County Health Agency;Regional Water Quality Control Board
County Health Agency
Not applicable to this spill
County Health Agency

County Health Agency

None of the above
Not applicable to this spill

No water quality samples taken

None of the above
County Health Agency

County Health Agency

County Health Agency
No water quality samples taken

None of the above

County Health Agency;Regional Water Quality Control Board

Central Marin Sanitary District and Marin County Public Health Laboratory.

The samples where taken to Central Marin Sanitation Agency.

The overflow went into the dirt.

105233 8/31/2010 4:48

106366 10/22/2010 12:55

106789 11/10/2010 20:40

107583 12/17/2010 23:30

107766 12/22/2010 9:45

107890 12/27/2010 14:00

107941 12/29/2010 1:40

110177 1/10/2011 16:05

110315 1/17/2011 16:26

110417 1/21/2011 14:20

110499 1/25/2011 16:45

111160 2/25/2011 10:15

111165 2/25/2011 12:40

111228 2/28/2011 15:35

111289 3/2/2011 19:20

111361 3/6/2011 17:15

111583 3/16/2011 15:45

111604 3/17/2011 15:36

111809 3/23/2011 11:00

111846 3/24/2011 12:03

111921 3/25/2011 10:40

111980 3/27/2011 10:30

112320 4/12/2011 9:55

112498 4/20/2011 11:25

112526 4/21/2011 12:09

113006 5/16/2011 9:00

113204 5/26/2011 13:13

113542 6/13/2011 18:20

113563 6/14/2011 22:46

113800 6/24/2011 14:10

114717 8/9/2011 11:30

114787 8/11/2011 21:20

116201 10/17/2011 21:14

116325 10/24/2011 5:56

116380 10/26/2011 9:14

116590 11/4/2011 14:28

107583 12/17/2010 23:30

2SSO10172	Active	774406 John Clark	Certified
2SSO10172	Active	774416 John Clark	Certified
2SSO10172	Active	774426 johnc Clark	Certified
2SSO10172	Active	774428 John Clark	Certified
2SSO10172	Active	774429 John Clark	Certified
2SSO10172	Active	774660 Jeffrey R. Yee	Certified
2SSO10172	Active	775020 Jeffrey R. Yee	Certified
2SSO10172	Active	775127 Stephen Miksis	Certified
2SSO10172	Active	775593 Stephen Miksis	Certified
2SSO10172	Active	775818 Stephen Miksis	Certified
2SSO10172	Active	775919 Stephen Miksis	Certified
2SSO10172	Active	776334 Stephen Miksis	Certified
2SSO10172	Active	776814 Stephen Miksis	Certified
2SSO10172	Active	777790 Stephen Miksis	Certified
2SSO10172	Active	778670 Jeffrey R. Yee	Certified
2SSO10172	Active	778999 Stephen Miksis	Certified
2SSO10172	Active	779313 Stephen Miksis	Certified
2SSO10172	Active	779768 Stephen Miksis	Certified
2SSO10172	Active	781077 Stephen Miksis	Certified
2SSO10172	Active	781340 Stephen Miksis	Certified
2SSO10172	Active	781767 Stephen Miksis	Certified
2SSO10172	Active	782135 Stephen Miksis	Certified
2SSO10172	Active	782965 Stephen Miksis	Certified
2SSO10172	Active	783393 Stephen Miksis	Certified
2SSO10172	Active	785121 Stephen Miksis	Certified
2SSO10172	Active	785877 Stephen Miksis	Certified
2SSO10172	Active	786203 Jeffrey R. Yee	Certified
2SSO10172	Active	786281 Stephen Miksis	Certified
2SSO10172	Active	786365 Stephen Miksis	Certified
2SSO10172	Active	787717 John Clark	Certified
2SSO10172	Active	787948 John	Certified
2SSO10172	Active	788190 Stephen Miksis	Certified
2SSO10172	Active	788191 Jeffrey R Yee	Certified
2SSO10172	Active	788192 John Clark	Certified
2SSO10172	Active	788193 Jeffrey R. Yee	Certified
2SSO10172	Active	788416 Stephen Miksis	Certified
2SSO10172	Active	788573 Jeffrey R. Yee	Certified
2SSO10172	Active	788656 Stephen Miksis	Certified
2SSO10172	Active	788757 Stephen Miksis	Certified
2SSO10172	Active	788783 Jeffrey R. Yee	Certified
2SSO10172	Active	788830 Stephen Miksis	Certified
2SSO10172	Active	789107 Stephen Miksis	Certified
2SSO10172	Active	789512 Stephen Miksis	Certified
2SSO10172	Active	790262 Stephen Miksis	Certified
2SSO10172	Active	791919 Stephen Miksis	Certified
2SSO10172	Active	792007 Stephen Miksis	Certified
2SSO10172	Active	792214 John Clark	Certified
2SSO10172	Active	792834 Stephen Miksis	Certified
2SSO10172	Active	792969 Stephen Miksis	Certified
2SSO10172	Active	793412 Stephen Miksis	Certified
2SSO10172	Active	793559 Stephen Miksis	Certified
2SSO10172	Active	796470 John Clark	Certified
2SSO10172	Active	796616 Stephen Miksis	Certified
2SSO10172	Active	798192 Stephen Miksis	Certified
2SSO10172	Active	798232 Stephen Miksis	Certified

Chief of Operations
Chief of Operations
chief of operations
Chief of Operations
Chief of Operations
Maintenance Superintendent
Maintenance Superintendent
Interim Maintenance Superintendent
Interim Maintenance Superintendent
Interim Maintenance Superintendent
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	13:10	706740
	14:05	496956
	13:15	961952
	17:00	616449
	17:00	666536
San Rafael		505829
San Rafael		504318
San Rafael		192829
San Rafael		956096
San Rafael		941310
San Rafael		743544
San Rafael		584380
San Rafael		134080
San Rafael		533514
San Rafael		496784
San Rafael		418044
San Rafael		265751
San Rafael		977644
San Rafael		352917
San Rafael		539440
San Rafael		356884
San Rafael		683731
San Rafael		359380
San Rafael		577120
San Rafael		312784
San Rafael		555719
San Rafael		700790
San Rafael		394049
San Rafael		513766
RVSD		752909
RVSD		659589
Larkspur		464957
San Rafael		248760
	17:00	292468
San Rafael		402877
San Rafael		369904
San Rafael		443531
San Rafael		228708
San Rafael		347687
San Rafael		403679
San Rafael		193260
San Rafael		981913
San Rafael		368154
San Rafael		184663
San Rafael		862366
San Rafael		320494
	9:30	637286
San Rafael		629646
San Rafael		341555
San Rafael		705171
San Rafael		936078
	15:30	281878
San Rafael		899765
San Rafael		901430
2000 Larkspur Landing Circle		656397

20-Dec-11	12/20/2011	20-Dec-11	12/20/2011
20-Dec-11	12/20/2011	20-Dec-11	12/20/2011
20-Dec-11	12/20/2011	20-Dec-11	1/9/2012
20-Dec-11	12/20/2011	20-Dec-11	12/20/2011
20-Dec-11	12/20/2011	20-Dec-11	12/20/2011
23-Dec-11	12/23/2011	23-Dec-11	12/23/2011
30-Dec-11	12/30/2011	30-Dec-11	12/30/2011
3-Jan-12	1/3/2012	3-Jan-12	1/3/2012
10-Jan-12	1/10/2012	10-Jan-12	1/10/2012
13-Jan-12	1/13/2012	13-Jan-12	1/13/2012
17-Jan-12	1/17/2012	17-Jan-12	1/17/2012
24-Jan-12	1/24/2012	24-Jan-12	1/24/2012
2-Feb-12	2/2/2012	2-Feb-12	2/2/2012
21-Feb-12	2/21/2012	21-Feb-12	2/21/2012
14-Mar-12	3/14/2012	14-Mar-12	3/14/2012
23-Mar-12	3/23/2012	23-Mar-12	3/23/2012
2-Apr-12	4/2/2012	2-Apr-12	4/2/2012
9-Apr-12	4/9/2012	9-Apr-12	4/10/2012
8-May-12	5/8/2012	8-May-12	5/8/2012
15-May-12	5/15/2012	15-May-12	5/15/2012
31-May-12	5/31/2012	31-May-12	5/31/2012
13-Jun-12	6/13/2012	13-Jun-12	6/13/2012
5-Jul-12	7/5/2012	5-Jul-12	7/5/2012
12-Jul-12	7/12/2012	12-Jul-12	7/12/2012
14-Aug-12	8/14/2012	14-Aug-12	8/14/2012
4-Sep-12	9/4/2012	4-Sep-12	9/4/2012
13-Sep-12	9/13/2012	13-Sep-12	9/13/2012
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31-Oct-12	10/31/2012	1-Nov-12	11/1/2012
8-Nov-12	11/8/2012	16-Nov-12	11/16/2012
18-Nov-12	11/19/2012	5-Dec-12	12/5/2012
18-Nov-12	11/19/2012	4-Dec-12	12/4/2012
18-Nov-12	11/19/2012	20-Nov-12	11/20/2012
18-Nov-12	11/18/2012	4-Dec-12	12/4/2012
27-Nov-12	11/27/2012	27-Nov-12	11/27/2012
29-Nov-12	11/29/2012	29-Nov-12	11/29/2012
2-Dec-12	12/2/2012	27-Dec-12	12/27/2012
4-Dec-12	12/4/2012	27-Dec-12	12/27/2012
5-Dec-12	12/5/2012	5-Dec-12	12/5/2012
6-Dec-12	12/6/2012	27-Dec-12	12/27/2012
17-Dec-12	12/17/2012	27-Dec-12	12/27/2012
28-Dec-12	12/28/2012	28-Dec-12	12/28/2012
15-Jan-13	1/15/2013	15-Jan-13	1/15/2013
21-Feb-13	2/21/2013	11-Mar-13	3/11/2013
25-Feb-13	2/25/2013	11-Mar-13	3/11/2013
28-Feb-13	2/28/2013	11-Mar-13	8/5/2013
21-Mar-13	3/21/2013	21-Mar-13	3/21/2013
27-Mar-13	3/27/2013	15-Apr-13	4/15/2013
16-Apr-13	4/16/2013	16-Apr-13	4/16/2013
22-Apr-13	4/22/2013	23-Apr-13	4/23/2013
3-Jul-13	7/3/2013	15-Aug-13	8/15/2013
9-Jul-13	7/9/2013	24-Jul-13	7/24/2013
26-Aug-13	8/26/2013	26-Aug-13	8/26/2013
27-Aug-13	8/27/2013	5-Sep-13	9/5/2013

Category 1	998100	176107
Category 1	18000	0
Category 1	7250	1850
Category 1	1770840	359620
Category 3	300	300
Category 3	50	0
Category 3	50	0
Category 3	450	450
Category 1	4200	200
Category 3	200	0
Category 3	10	10
Category 3	15	15
Category 1	400	0
Category 3	600	50
Category 3	50	0
Category 2	1100	0
Category 3	200	0
Category 3	360	150
Category 3	100	0
Category 1	1700	250
Category 1	4320	0
Category 3	5	0
Category 1	1000	800
Category 3	900	100
Category 3	10	0
Category 3	200	0
Category 3	50	0
Category 1	1036	2
Category 3	25	0
Category 1	87776	1250
Category 2	9852	0
Category 3	20	0
Category 1	730	0
Category 1	21735	0
Category 1	5	0
Category 3	40	0
Category 3	35	20
Category 1	26894	14000
Category 2	7350	0
Category 3	15	3
Category 3	100	0
Category 3	125	10
Category 3	125	10
Category 3	20	0
Category 1	91	27
Category 3	100	0
Category 1	23834	0
Category 1	43	43
Category 1	3600	25
Category 1	15	0
Category 1	12600	0
Category 3	150	150
Category 1	2659	0
Category 3	900	900
Category 3	50	10

821993	Yes	Yes
18000	Yes	Yes
540	Yes	Yes
1410920	Yes	Yes
0	No	No
0	No	Yes
0	No	No
0	No	No
4200	Yes	No
0	No	No
0	No	No
0	No	No
400	Yes	Yes
0	No	Yes
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
1200	Yes	Yes
4000	Yes	No
0	No	No
100	Yes	Yes
0	No	No
0	No	No
0	No	No
0	No	No
1034	Yes	Yes
0	No	No
86526	Yes	Yes
0	No	No
0	No	No
730	Yes	Yes
20000	Yes	No
5	Yes	No
0	No	Yes
0	No	No
12894	Yes	Yes
0	No	Yes
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
64	No	Yes
0	No	Yes
23834	Yes	Yes
1	Yes	Yes
3575	Yes	No
15	No	No
12600	Yes	No
0	No	Yes
2659	Yes	No
0	No	Yes
0	No	No

Not Applicable - Spill did not reach a separate storm drainpipe

Manhole #7317 at Kent Middle School
Manhole #3800
Clean out at 5 Stadium Way, Manhole #2262, Cleanout at 18 Laurel Street.
Kent Middle School Manhole # 7316, 7317
Cleanout at 131 Kent Street
557 Scenic Avenue
21 Toussin Avenue
83 Hatzic Ct Larkspur
7 Woodhaven Road
21 Toussin Ave
24 San Francisco Blvd
1000 Sir Francis Drake Blvd
133 Poplar Drive
Melville and Vine, San Anselmo
7 Quisisanna Drive
28 Crest Road
130 Barber Ave
2501 Sir Francis Drake Blvd
24 forest court Sleepy hollow
17 Frances Larkspur
432 Woodland Ave Kentfield
253 Los Angeles BLVD, San Anselmo
Pump Station 13 ARV Bon Air Shopping center
400 Woodland Road
10 Ivy Lane, San Anselmo
201 Evergreen, Kentfield
78 Mountain View Road
35 San Francisco Blvd, San Anselmo
506 Sequoia Drive, San Anslemo
64 Woodside Drive, Back of house
506 Sequoia Drive, San Anselmo
Cleanout
Manhole
Cleanout
Cleanout
540 Sequoia Drive
11 Tamalpais
16 Broadmoor Avenue
Sir Francis Drake Blvd.
Hooper Lane
Quisisana Drive
635 Goodhill Road
697 Fawn Drive
5 Madera Ave Ross
84 Almenar Drive
243 Wilson Way
495 Los Cerros Greenbrae
151 Bon Air shopping center
45 Mountain View
8 Ivy Lane
9 Glen Way Larkspur
6 Myrtle Ave
Westbrae trunk sewer, Olema creek crossing
5 Gregory Drive
673 Magnolia Drive

37.952806	-122.546722 Marin
37.957111	-122.5505 Marin
37.957111	-122.5505 Marin
37.952806	-122.546722 Marin
37.953528	-122.55125 Marin
37.97773	-122.58086 Marin
37.96022	-122.5508 Marin
37.93103	-122.5527 Marin
37.96624	-122.57189 Marin
37.96022	-122.5508 Marin
37.98281	-122.56805 Marin
37.98163	-122.56729 Marin
37.96019	-122.53947 Marin
37.96946	-122.56957 Marin
37.95703	-122.5419 Marin
37.97363	-122.55406 Marin
37.97143	-122.56022 Marin
37.99582	-122.59689 Marin
38.00127	-122.57648 Marin
37.9464	-122.54665 Marin
37.95052	-122.56324 Marin
37.98675	-122.56353 Marin
37.94645	-122.5265 Marin
37.94997	-122.56176 Marin
37.97747	-122.58004 Marin
37.94628	-122.55664 Marin
37.98559	-122.59598 Marin
37.98344	-122.56823 Marin
37.98222	-122.55708 Marin
37.997556	-122.578247 Marin
37.982303	-122.557014 Marin
37.931044	-122.535314 Marin
38.004661	-122.594311 Marin
37.989236	-122.576728 Marin
37.989097	-122.576714 Marin
37.98232	-122.55622 Marin
37.93426	-122.54153 Marin
37.986375	-122.574642 Marin
37.95076	-122.5369 Marin
37.98331	-122.58024 Marin
37.95729	-122.5439 Marin
37.95489	-122.56761 Marin
38.00109	-122.5649 Marin
37.9702	-122.55366 Marin
37.94994	-122.53142 Marin
37.93136	-122.55269 Marin
37.95403	-122.53405 Marin
37.94854	-122.5247 Marin
37.98627	-122.57234 Marin
37.97771	-122.58027 Marin
37.93223	-122.54995 Marin
37.93467	-122.53822 Marin
37.996867	-122.598614 Marin
38.00104	-122.59376 Marin
37.94018	-122.53726 Marin

[illegible]

Middle School Race Track

Clean out at 5 Stadium Way, Manhole #2262 at Laurel and Locust, Cleanout at 18 Laurel.

Manhole 5448 in the street had overflowed. When the crew arrived on site the street was dry and had flowed into a drain :
The spill description is a manhole that overflowed.

Manhole overflowed in the yard.

Part of a decaying tree limb fell on a 6 HDPE sewer line that was suspended 3-4 feet high over a drainage channel. The c
Liquid was bubbling out of the manhole

A blockage from a private lateral broke and the surcharge overwhelmed capacity in a 4 District line and liquid came out c
Material came out of Rod hole or cleaning port.

Water and Sewage came out of the manhole.

Wastewater was coming out of a manhole.

The spill location was in the front yard.

Sewage came out of a rod hole.

Sewage came out of a cleanout into a paved area.

Sewage came out of a cleanout in front of the building complex due to a partial blockage in the mainline

Material was seen around the manhole that was dried up. The manhole had a partial blockage.

A large void developed a sink hole in the street and sewer came out of the 8 hole in the asphalt due to a 6 sewer main c

Spill was coming out of the street and the ground due to debris that was lodge in a major sag. The blockage grew upstree
Sewer came out of a cleanout

The schedule 80 PVC broke off on the air release valve in the manhole next to the Pump Station.

A pipe collapse occurred just downstream from a manhole in the street. The easement line that came into the surcharged
Steep Easement

Manhole

Sewer came out of the asphalt on the side of the street.

Out of a manhole that had a partial blockage

Behind 64 Woodside Drive San Anselmo

East side of 506 Sequoia

From Manhole in street.

Same call as 14 Willow way.

This spill was called in first but the major spill was next door at 9 Willow way.

Sewage was not coming out of the rod hole when operator arrived. Line was recently CCTV'd and line was clear of any d

The overflow came out of the rodhole casting onto the street.

Manhole, in street

The spill was overflowing out of an old lamp hole.

The spill location is a 4 inch rod hole in the driveway of 15 Hooper Lane.

The overflow was coming out of a 4 inch cleanout due to large amounts of rain.

The spill was leaching from the manhole cover.

Sewage came out of a lamp hole.

Sewage was leaking out of the node due to a partial blockage. Line is 400 feet long and the camera could not make it do

Sewage was coming out of the manhole pick slowly and ran down the street.

Sewage came out of a rod hole. When operator arrived, it was not overflowing. There was standing water in the manhole

Overflow was noticed the day before by a contractor working on the house next door. A note was left with the homeowner

Manhole for a ARV to pump station 13 ruptured just below the bottom riser ring.

Through cracks in a bridge over a creek.

Sewage came out of the hillside via a large void in the pipe. Sewage came down the hillside into a drainage ditch and the

Sewage came out of cracks in the street / curb

Spill is seeping out of a creek bank directly under a trunk sewer where it crosses the creek.

Sewage came out of a lamp hole due to a lot of rags and hand towels that got blocked behind a root ball.

Sewage came out of the ground on an easement

and then went into the dirt. Posted signs

coupler was torn creating an offset in wh

of the lower rod hole due to the amount c

ollapse.

am about 30 feet and exfiltrated out of tr

manhole had a buried manhole about 1

ebris.

wnstream due to material in the line. Va

ə but there was only one house above sl
r and the District was not called till the n

ən absorbed into the ground

Manhole
Manhole
Manhole;Other sewer system structure
Manhole
Other (specify)
Manhole
Manhole
Gravity sewer
Gravity sewer
Manhole
Gravity sewer
Other sewer system structure
Manhole
Manhole
Other sewer system structure
Gravity sewer
Other sewer system structure
Other sewer system structure
Manhole
Other (specify)
Other (specify)
Other sewer system structure
Manhole
Manhole
Other sewer system structure
Manhole
Gravity sewer
Other (specify)
Manhole
Manhole
Other sewer system structure
Other (specify)
Manhole
Other (specify)
Other (specify)
Other sewer system structure
Manhole
Gravity sewer;Manhole
Other sewer system structure
Other sewer system structure
Other sewer system structure
Manhole
Other sewer system structure
Manhole
Manhole
Manhole
Gravity sewer
Other sewer system structure
Other (specify)
Manhole
Other (specify)
Other (specify)
Other (specify)
Other sewer system structure
Other (specify)

clean out at home

Manhole 5448 in the street had overflowed. When the crew arrived on site the street was dry and had flowed into a drain

Rod Hole

It overflowed out of the 4 inch cleanout.

Cleanout

Cleanout

Sewer came out of the asphalt in the middle of the street.

Spill came out of the dirt through a void in the pipe

Cleanout

Cleanout that was broken at the transition

Cracks in the asphalt

Rodhole

Cleanout

pick hole

Cleanout

Cleanout

Cleanout

The spill was overflowing out of an old lamp hole.

The spill location is a 4 inch rod hole in the driveway of 15 Hooper Lane.

The overflow was coming out of a 4 inch cleanout due to large amounts of rain.

The spill was leaching from the manhole cover.

Lamphole

Sewer exfiltrated out of a siphon exfiltrated at several locations under a bridge

Came out of the ground via a large void in the pipe.

Asphalt / concrete curb

side of a creek bank.

Lamp Hole or Cleaning port

Sewage came out of the hill side and ponded in a 4 foot radius

Surface water
Separate storm drain
Separate storm drain
Surface water;Unpaved surface
Unpaved surface
Unpaved surface
Street/curb and gutter
Unpaved surface
Unpaved surface
Street/curb and gutter
Other paved surface
Other paved surface
Separate storm drain
Separate storm drain
Unpaved surface
Unpaved surface
Other paved surface
Other paved surface
Unpaved surface
Surface water
Surface water
Unpaved surface
Surface water
Unpaved surface
Other paved surface
Unpaved surface
Other paved surface
Separate storm drain
Other paved surface
Separate storm drain
Unpaved surface
Unpaved surface
Separate storm drain
Surface water
Separate storm drain
Other paved surface
Other paved surface
Other paved surface;Separate storm drain
Separate storm drain;Street/curb and gutter
Other paved surface
Unpaved surface
Other paved surface
Unpaved surface
Other paved surface
Separate storm drain
Unpaved surface
Separate storm drain
Other (specify below)
Surface water
Other paved surface
Unpaved surface
Separate storm drain
Surface water
Separate storm drain
Unpaved surface

Flower Bed

When the crew arrived the street was dry and had flowed into a drain and then into the dirt. Posted signs
The overflow went in the street, gutter then into the dirt.

Final Destination is unclear as about 800-1000ft downstream, the storm drain pipe had no flow or moisture. The spill was
Liquid drained down the pavement and asphalt till it dissipated.
Liquid made it about 30 feet from rodhole.

Most of the spill went on the street and not the storm drain

The final spill destination was in the front yard.

The spill was contained in the parking lot and was vacuumed up by on call personnel. Pictures were taken at the time to
The hillside down from the manhole
Spill entered waterway that leads to the Corte Madera Creek.
The sewer was absorbed into the ground and made its way to the drainage channel that was flowing about 2 gallons a min

The spill was contained behind a retaining wall next to a drainage ditch.

Willow Creek

Sewage spilled into a short storm drain and the outfall was dry.

The spill location is a 4 inch rod hole in the driveway of 15 Hooper Lane.
The final destination of the spill was around the 4 inch cleanout.
The final spill destination is on the pavement.

The sewage came down the hill in the gutter pan and appears that it ran into the storm drain. There was also ground water
Security guard saw a burst of air and water that lasted 5 seconds around our manhole in the back parking lot. It is presumed

The report indicates that there was a small amount of sewage that mixed with runoff and went into the storm drain. First
Storm drain was checked to the outfall. Outfall to creek was dry and the Vac con thoroughly cleaned and vacuumed the :

12/18/2010 7:30	12/18/2010 7:30	12/18/2010 7:30	12/18/2010 15:00
12/18/2010 19:40	12/18/2010 19:40	12/18/2010 19:40	12/19/2010 3:10
12/22/2010 11:00	12/22/2010 11:00	12/22/2010 11:00	12/22/2010 17:00
12/22/2010 0:00	12/22/2010 11:00	12/22/2010 11:00	12/22/2010 23:00
12/22/2010 15:00	12/22/2010 23:00	12/22/2010 23:45	12/22/2010 16:00
12/22/2011 0:00	12/22/2011 20:08	12/22/2011 21:00	12/22/2011 21:00
12/28/2011 0:00	12/28/2011 11:10	12/28/2011 11:33	12/28/2011 11:10
12/31/2011 0:00	12/31/2011 15:12	12/31/2011 16:30	12/31/2011 17:05
12/26/2011 0:00	1/9/2012 14:30	1/9/2012 15:00	1/9/2012 15:55
1/12/2012 0:00	1/12/2012 12:30	1/12/2012 12:50	1/12/2012 13:00
1/16/2012 0:00	1/16/2012 14:03	1/16/2012 15:10	1/16/2012 16:46
1/23/2012 0:00	1/23/2012 14:25	1/23/2012 15:25	1/23/2012 15:35
2/1/2012 0:00	2/1/2012 14:10	2/1/2012 14:15	2/1/2012 14:15
2/18/2012 0:00	2/18/2012 18:20	2/18/2012 19:20	2/18/2012 19:30
3/14/2012 0:00	3/14/2012 10:30	3/14/2012 11:00	3/14/2012 12:15
3/16/2012 0:00	3/22/2012 15:00	3/22/2012 15:00	3/22/2012 16:00
3/30/2012 0:00	3/30/2012 9:50	3/30/2012 10:25	3/30/2012 10:35
4/5/2012 0:00	4/5/2012 17:30	4/5/2012 17:55	4/5/2012 19:30
5/7/2012 0:00	5/7/2012 10:48	5/7/2012 10:48	5/7/2012 10:48
5/14/2012 0:00	5/14/2012 7:40	5/14/2012 8:11	5/14/2012 8:30
5/26/2012 0:00	5/29/2012 19:30	5/29/2012 20:19	5/29/2012 21:10
6/11/2012 0:00	6/11/2012 19:02	6/11/2012 20:05	6/11/2012 20:10
7/3/2012 0:00	7/3/2012 13:50	7/3/2012 13:50	7/3/2012 17:00
7/10/2012 0:00	7/10/2012 9:48	7/10/2012 10:05	7/10/2012 10:12
7/13/2012 0:00	8/13/2012 15:20	8/13/2012 15:45	8/14/2012 12:00
9/3/2012 0:00	9/4/2012 9:46	9/4/2012 10:20	9/4/2012 10:20
9/7/2012 0:00	9/7/2012 11:30	9/7/2012 12:00	9/7/2012 12:00
9/15/2012 0:00	9/17/2012 11:00	9/17/2012 11:00	9/17/2012 12:30
9/18/2012 0:00	9/18/2012 16:42	9/18/2012 17:11	9/18/2012 17:11
10/26/2012 8:00	10/30/2012 20:55	10/30/2012 21:45	10/30/2012 22:35
11/4/2012 0:00	11/8/2012 8:40	11/8/2012 8:58	11/8/2012 9:10
11/17/2012 8:00	11/17/2012 9:02	11/17/2012 10:18	11/17/2012 10:35
11/17/2012 11:00	11/17/2012 12:13	11/17/2012 13:02	11/17/2012 13:23
11/17/2012 14:40	11/17/2012 14:42	11/17/2012 17:30	11/17/2012 18:08
11/17/2012 16:40	11/17/2012 16:42	11/17/2012 17:30	11/17/2012 18:08
11/23/2012 7:15	11/23/2012 7:30	11/23/2012 8:15	11/23/2012 8:00
11/27/2012 7:45	11/27/2012 7:45	11/27/2012 8:03	11/27/2012 8:12
12/2/2012 7:25	12/2/2012 7:50	12/2/2012 7:50	12/2/2012 10:23
12/3/2012 8:00	12/4/2012 8:05	12/4/2012 8:05	12/4/2012 8:30
11/29/2012 9:30	11/29/2012 9:30	11/29/2012 10:37	11/29/2012 10:39
12/2/2012 8:54	12/2/2012 10:52	12/2/2012 10:52	12/2/2012 9:26
12/13/2012 8:35	12/13/2012 10:00	12/13/2012 10:15	12/13/2012 10:35
12/27/2012 9:00	12/27/2012 10:00	12/27/2012 10:21	12/27/2012 10:28
1/10/2013 7:00	1/10/2013 9:12	1/10/2013 9:21	1/10/2013 9:25
2/19/2013 18:45	2/19/2013 18:45	2/19/2013 19:50	2/19/2013 20:16
2/21/2013 16:30	2/21/2013 17:04	2/21/2013 17:40	2/21/2013 17:40
2/25/2013 8:00	2/26/2013 11:00	2/26/2013 11:06	2/26/2013 11:38
3/20/2013 8:45	3/20/2013 8:48	3/20/2013 9:00	3/20/2013 8:45
1/26/2013 0:00	3/21/2013 9:00	3/26/2013 10:06	3/26/2013 12:05
4/12/2013 5:00	4/13/2013 12:36	4/13/2013 13:25	4/13/2013 13:25
3/29/2013 15:45	4/19/2013 15:45	4/19/2013 16:16	4/19/2013 17:30
7/1/2013 9:28	7/1/2013 9:32	7/1/2013 9:55	7/1/2013 10:30
7/1/2013 9:30	7/8/2013 11:28	7/8/2013 11:55	7/8/2013 11:55
8/22/2013 9:45	8/22/2013 10:00	8/22/2013 10:11	8/22/2013 10:15
8/26/2013 9:00	8/26/2013 12:15	8/26/2013 12:44	8/26/2013 13:15

Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Debris-Rags
Debris-General
Debris-Rags
Pipe structural problem/failure
Other (specify below)
Other (specify below)
Debris-General
Root intrusion
Debris-Rags
Surcharged pipe (Combined CS Only)
Root intrusion
Other (specify below)
Pipe structural problem/failure
Root intrusion
Pipe structural problem/failure
Pipe structural problem/failure
Operator error
Pipe structural problem/failure
Pipe structural problem/failure
Pipe structural problem/failure
Other (specify below)
Root intrusion
Pipe structural problem/failure
Pipe structural problem/failure
Pipe structural problem/failure
Other (specify below)
Root intrusion
Root intrusion
Debris-General
Other (specify below)
Debris-General
Root intrusion
Pipe structural problem/failure
Root intrusion
Other (specify below)
Rainfall exceeded design (Separate CS Only)
Root intrusion
Pipe structural problem/failure
Debris-Rags
Other (specify below)
Root intrusion
Root intrusion
Pipe structural problem/failure
Pipe structural problem/failure
Pipe structural problem/failure
Pipe structural problem/failure
Other (specify below)
Pipe structural problem/failure
Root intrusion
Other (specify below)

A combination of Debris and Surcharged Conditions.

A Combination of debris and surcharged conditions.

A combination of debris and surcharged conditions.

This spill was caused by a several situations, pipe failure, debris in pipe, and surcharging.

A combination of debris and surcharged conditions.

The spill was caused due to large amounts of rags.

The blockage had roots, rags and removed a fish. It looks like someone just cleaned their lateral.

A severe amount of grease came into the bottom manhole along with mostly baby wipes.

There is a 4 inch line serving several houses. There was an SSO recently at the same manhole. A large quantity of large
The District was called because a contractor said that there was a problem in a District line. When Noel showed up, the c

Our Vactor dumped water down the line to help flush for a rodder unit called for. The amount of water dumped down the
Baby wipes and disposable towels were all clumped together. The crew did not see roots in the manhole after clearing th

MMWD (Water District) had a contractor installing new water lines and they found a rather large void. Upon finding the v
The steel pipe was seen to be perforated after emergency excavation was done the following day and we could see the p

The homeowner saw moisture just below the District cleanout and decided to call after a month. The transition was broke
Partial blockage in the main. The level of liquid in the manhole was 5 inches below the casting and was not leaking at the

There is a piece of 4 inch cast iron wedged in the 4 inch pipe 40 feet down from the manhole. CCTV crews located it and
Concrete stake through pipe, from retaining wall construction.

brick in siphon

Brick found in main.

A very small amount went into the storm drain and most of it dried up on the asphalt above. The damp dirt was removed

The crew was driving by the location this morning when they noticed that sewage was overflowing out of the lamp hole. V
The 4 inch blockage was caused by 3/4 rock and grit.

A crew member was out for a storm drain problem and noticed the 4 inch cleanout had overflowed. Crew member called
Broken pipe causing root intrusion.

Debris and roots and a piece of 6 VCP broken pipe was removed from the line.

A large root mass from what we could tell that was captured in the downstream manhole after the blockage was broken at
A three foot long slug of roots was pushed out of the line. The line was CCTV'd and there was minimal RFJ's in the line s
This line is an easement line and has been a hand rod line. Even after breaking the blockage with handrods, there was n
The ARV Line is allowing multiple joints to have infiltration occur so the line was full of ground water and sewer gases. 3
Joints on the upstream side of an inverted siphon allowed exfiltration to occur, that came through the voids and cracks ur
Manhole was surcharged 6 inches from the top of the casting.

The Trenchless Crew installed a point repair into a large void that had a lamp hole hanging in the dirt. A line came into th

The resident Patty Tarn called in the overflow right away and we had a rodder crew right in the area.

Massive root intrusion. Line was not on mapping system but through investigation, we found it hand drawn on old maps.

The failure occurred due too large amounts of rags.

The blockage had roots,rags and removed a fish. It looks like someone just cleaned their lateral.

Outgoing manhole invert.

There was an issue in our main and and a couple hundred down, a homeowner was still backup even though our mainline

The 6 inch line has a major sag in the line about 20 feet upstream. Asphalt and rocks were removed along with a couple

The 90 sheared off at the bottom of the ARV which resulted in sewer being discharge out of a 2 pipe. Valves were imme
A large void was found in the line with the CCTV camera.

The pipe is in decent condition. Something came down a lateral and plugged up the main. This was partial blockage and
The roots came into the pipe from the connection.

Root intrusion.

The 4 inch blockage was caused by 3/4 rock and grit.

The rainfall dependent I/I exceeded the capacity of the sewer main.

Broken pipe causing root intrusion.

The main blockage was 192-197 ft upstream from the downstream manhole.

ARV access manhole

Joints throughout the fairly short siphon.

Still unknown. Crews will be out there today addition. Multiple grade 5 and 4 defects. Line has been added to CMMS :

was cleared. A CCTV crew

buckets worth of rags that cc

diately closed and the pump

I near the end of a system

and GIS.6 month maintenanc

Cast iron
4 Cast Iron
6 VCP
6 HDPE VCP
4 Cast Iron
4 Cast Iron
4 CI
6 VCP
6
8 VCP
4 VCP
6 VCP
8 Steel
4 VCP
6 VCP
6 cas
4 HDPE
2 PVC
6 VCP
4 ci
6 VCP

6 VCP
4 CI
6 VC

6 VCP

4 CI
4 VCP
18 VCP
6 Cast Iron
4 cast iron
6 VCP
6 VCP
6 VCP
6 VCP
6 VCP
4 VCP
6 VCP

6 CI DI
4 CAS VCP
6 VCP
6 VCP
8 Steel
6 VCP
6 VCP

50
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30
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50
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60
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60
60
80
40
60

Added to the response activities is that our crews laid new dirt down to help out the resident.

The Crew opened the blockage and restored flow. The Health Department was notified and due to the access and darkness. Notification has been given to all the homeowners about dumping large fish down the sewer lines. The CCTV showed the

District personnel will be present while the contractor clears the line so that our main line does not back up again.

The crew took several pictures of the outfall of the storm drain DO which was clear. They attempted to clean that section

During normal maintenance, our LMC found a rod hole that had standing sewage in it. The main is on an steep easement

Emergency USA called in and excavation. The pipe was in catastrophic state and had to be replaced immediately. Multi The partial blockage was opened with the vactor and CCTV was completed and the line was added to 6 month maintenance. The sink hole was excavated and repaired by the District and the contractor.

This line was located and inspected the next morning due to safety concerns during the late night activity. It was put on 6 The inflatable plug was removed from the line that caused the blockage in the lateral to the mainline.

The sewer was contained behind the retaining wall of a flower bed right next to a drainage ditch. The grout was damp but Crews contained the spill area as it was small amounts of moisture. The repair was made the next morning.

Line is scheduled for CCTV but the Rodder operator said there were roots in the line. The Vactor will be sent out there to

Crews are repairing the collapse as of 3:30 pm. Vactor and the CCTV truck are present with the Line Repair Crew just in The manhole was surcharged when the operator arrived and was not overflowing. Level was just below the frame. The s See Attachments

Repair sewer pipe and remove stake.

See attachments

Large 3 inch roots were cut out with a Chain Flail and the Vactor. District will be installing a Cured in Place Point Repair

The crew swept 3 gallons of sewage and toilet paper back into the 4 inch rod hole.

Cleaned up around the 4 inch cleanout picked up all the small amounts of paper.

Scheduled for spot repair.

Staff looked up records to see when line had been cleaned and CCTV'd and it was cleaned 7/5/2012. CCTV was 4/26/20

A manhole must be installed to obtain access to the middle of the line. Dye test was performed and took several minutes

Manhole base will be repaired so that better flow is achieved and does not get caught at the outgoing invert

Video and pictures were taken of the spill area.

SOP has been implemented

Cured in place point repair was installed on a void upstream 6 feet from the upstream manhole so that exfiltration was stopped

Manhole was surcharged when the operator arrived. The asphalt around the manhole was dry. Minor dampness was 15 feet

Pipe was repaired using a cured in place point repair

Emergency USA was called in and the Repair Crew opened the line up and figured out what happened. Flow was restored

RVSD discovered the seepage after a week of investigation. RVSD became relatively sure that this was in fact a Sewer

A cured in place point repair will be inserted today, Aug 26 so there will never have a overflow due to this defect.

Repair Crew will be out there today with CCTV again to install point repairs and find out why sewage came out of the ground

12/20/2010 12:00
12/20/2010 12:00
12/23/2010 17:00
12/23/2010 7:00

1/10/2012 16:30

1/16/2012 20:27

2/1/2012 15:00
2/18/2012 21:00

3/23/2012 12:00

5/14/2012 12:06
5/30/2012 12:00

7/3/2012 17:00

9/17/2012 14:00

11/2/2012 15:00
11/9/2012 4:00

11/21/2012 16:00
11/20/2012 14:00
11/20/2012 16:00

12/2/2012 16:00
12/4/2012 16:00

2/26/2013 8:00
2/22/2013 11:00
3/6/2013 12:00
3/20/2013 17:00
4/1/2013 9:00

4/22/2013 12:00

7/22/2013 16:00

Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance;Plan rehabilitatic
Plan rehabilitation or replacement of sewer
Repaired sewer
Repaired sewer

Repaired sewer;Other (specify below)

Other (specify below)

Other (specify below)

Added sewer to preventive maintenance program;Other (specify below)

Added sewer to preventive maintenance program

Plan rehabilitation or replacement of sewer;Repaired sewer
Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance;Plan rehabilitatic
Repaired sewer;Other (specify below)

Plan rehabilitation or replacement of sewer;Repaired sewer

Adjusted schedule/method of preventive maintenance;Plan rehabilitation or replacement of sewer
Repaired sewer

Repaired sewer
Repaired sewer
Plan rehabilitation or replacement of sewer

Repaired sewer
Plan rehabilitation or replacement of sewer

Adjusted schedule/method of preventive maintenance;Plan rehabilitation or replacement of sewer
Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance
Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance;Plan rehabilitatic
Adjusted schedule/method of preventive maintenance;Plan rehabilitation or replacement of sewer;Other (specify below)
Repaired sewer

Repaired sewer

Adjusted schedule/method of preventive maintenance;Plan rehabilitation or replacement of sewer;Repaired sewer

An emergency repair and cleanup is underway. The total gallons was estimated by what the tenant said. He smelled son
Line will be CCTV'd today.

Crews have been notified so that this accident does not occur again and that shallow manholes must be treated differentl
Line will be CCTV'd to see how a clump of rags got caught on a fairly steep line.

A contractor, Team Ghilotti, called the District to report a collapsed sewer pipe and an SSO from Hillcresst and Frances in

Crew removed the ARV and put a 2 inch ball valve to stop the discharging sewer. ARV will be installed properly soon.

Point Repair plained.
Cleaned siphon and checked system.

Rehab of manhole and cured in place point repairs inside the sewer line.
Line will be jetted and not rodded. After completing the inspection of the upstream, CCTV found another partial blockage
District Crews will install cured in place point repairs so this segment of pipe will not have an SSO due to joint root infiltra
Repaired area around manhole by pouring concrete and filling the cracks. Used the Vac con to vacuum out 4500 gallons
The siphon was lined by cured in place to prevent further exfiltration of sewage into the creek. A bypass was put in place

Yes
Yes
Yes
Yes

Yes

No

No
Yes

Yes

Yes
No

No

Yes

Yes
Yes

Yes
Yes
Yes

Yes
Yes

No
No
No
Yes
Yes

No

Yes

None

None. Spill was contained in a long drainage section.

None

None

None

None

None

None

none

none

The storm drain outfall had brackish water ponding before the creek. Samples were taken there.

The ground looked to have absorbed a large degree of the spill over the course of our 3 day estimate and the drainage of none

Water was stagnant at the drainage ditch and murky.

none

The storm drain was moist but there was no ponding. Wrong Address was initially given off of google maps which is incorrect

No evidence of harm to water body.

None

none

None

none

None

Following the storm drain underground system was challenging and took sometime to see where the flow actually went. "

Dye came out and Crews did their best to pump it up with hand pumps.

There is no noticeable impact on the creek, fish can be seen swimming around, and there are no odors.

none

Yes
Yes
Yes
Yes

Yes

Yes

Yes
Yes

No

Yes
Yes

Yes

Yes

Yes
Yes

Yes
Yes
Yes

Yes
Yes

No
No
Yes
Yes
Yes

Yes

Yes

None
None
None
None
None
None
None

None
None
none
none
none
none
none

Drainage ditch went to Corte Madera Creek.

none

none

None

No beach was impacted.

None

No beach was impacted.
No beach was impacted.
No beaches were impacted.
No beaches were impacted.
none

None

none

Corte Madera Creek
Corte Madera Creek
Corte Madera Creek
Corte Madera Creek
None
None
No surface water was impacted.
None
None
None
None
None
None
None
None
No water way was impacted.
None
None
none
none
Corte Madera Creek
Tamalpias Creek, Kentfield is further downstream from the spillsite drainage channel.
none
Large drainage ditch behind Bon Air Shopping Center
none
none
none
None
none
none
Sleepy Hollow Creek
N/A
None
Oak Manor creek
Willow Creek
Willow creak
None
No water way was impacted.
Sleepy hollow creek
No surface water was impacted.
There was no impact to any surface water.
No surface water was impacted.
No impact to surface water.
none
None
None
None
Corte Madera Creek.is several thousand feet away and would be the final destination and then proceed to the bay.
none
Sleepy Hollow Creek
None
none
none
Fairfax Creek
none
none

Biological indicator(s) - specify below
Other (specify below)
Other (specify below)
Other (specify below)

Other (specify below)

No water quality samples taken

Biological indicator(s) - specify below
Not applicable to this spill

Not applicable to this spill

Biological indicator(s) - specify below
Biological indicator(s) - specify below

Biological indicator(s) - specify below

Biological indicator(s) - specify below

Biological indicator(s) - specify below
Not applicable to this spill

Biological indicator(s) - specify below
Biological indicator(s) - specify below
Biological indicator(s) - specify below

Biological indicator(s) - specify below
Biological indicator(s) - specify below

No water quality samples taken
No water quality samples taken
Biological indicator(s) - specify below
Biological indicator(s) - specify below
Biological indicator(s) - specify below

Biological indicator(s) - specify below

Other chemical indicator(s) - specify below; Biological indicator(s) - specify below

Total Colif, EColif, Enterococcus
Total Colif, E Colif, Enterococcus
Total Coli, E Coli, Enterococcus
Total Coli, E coli, Enterococcus

Water Samples taken.

Enteroccus, E coli, Coliform

Coliform and Enterococcus
Enzyme Substrate Coliform Total Coliform E-coli Enzyme Substrate Enterococcus Enterococcus

Ecoli Entrococcus

Ecoli and Entrococcus

E-Coli Entr Coli

Colif, E-Colif, Entr
Colif, E-Colif, entr
Colif, E-Colif, Entr

Ecoli, Enterococcus, Total Coliform
Total Coliform, E- Coli & Enterococcus.

The sewage entered the storm drain and the District managed to locate part of the system but there was no viable maps t

Total Coliform Enterococcus
Ecoli Entrococcus
Ecoli Entrococcus

Ecoli Entrococcus

The Water was analyzed for Coliform and Fecal Coliform bacteria, along with Ammonia.

County Health Agency;Regional Water Quality Control Board
County Health Agency;Regional Water Quality Control Board
County Health Agency;Regional Water Quality Control Board
County Health Agency

None of the above

None of the above

County Health Agency
None of the above

None of the above

County Health Agency
County Health Agency

County Health Agency

County Health Agency

County Health Agency;Regional Water Quality Control Board
None of the above

County Health Agency;Regional Water Quality Control Board
County Health Agency;Regional Water Quality Control Board
County Health Agency

County Health Agency;Regional Water Quality Control Board
County Health Agency

None of the above
County Health Agency
County Health Agency
County Health Agency
County Health Agency

County Health Agency

County Health Agency

Waiting for results from Marin Lab

107583	12/17/2010 23:30
107583	12/17/2010 23:30
107766	12/22/2011 9:45
107766	12/22/2010 9:45
107766	12/22/2010 12:00
117558	12/22/2011 21:27
117629	12/28/2011 12:35
117681	12/31/2011 3:12
120152	1/9/2012 15:58
120214	1/12/2012 13:34
120301	1/16/2012 21:17
120484	1/23/2012 15:40
120657	2/1/2012 14:45
120963	2/18/2012 19:40
121483	3/14/2012 12:05
121701	3/22/2012 16:10
121881	3/30/2012 12:52
122026	4/12/2012 18:24
122713	5/7/2012 11:50
122861	5/14/2012 8:40
123163	5/29/2012 20:44
123408	6/11/2012 20:42
123866	7/3/2012 14:05
123989	7/10/2012 11:06
124771	8/13/2012 16:23
125297	9/4/2012 11:55
125388	9/7/2012 12:10
125616	9/17/2012 12:42
125647	9/18/2012 18:00
126561	10/30/2012 22:50
126772	11/8/2012 9:35
126965	11/17/2012 10:57
126970	11/17/2012 13:00
126987	11/18/2012 9:26
126977	11/17/2012 18:18
127069	11/23/2012 8:23
127145	11/27/2012 8:31
127289	12/2/2012 8:08
127392	12/4/2012 9:46
127204	11/29/2012 11:09
127306	12/2/2012 11:25
127615	12/13/2012 12:03
127944	12/27/2012 11:04
130208	1/10/2013 10:27
131058	2/19/2013 20:08
131109	2/21/2013 18:23
131185	2/26/2013 11:33
131698	3/20/2013 10:28
131826	3/26/2013 11:04
132223	4/13/2013 13:46
132353	4/19/2013 16:53
134041	7/1/2013 10:45
134210	7/8/2013 11:28
135209	8/22/2013 11:09
135309	8/26/2013 15:07

2SSO10172	Active	798486 Stephen Miksis	Certified
2SSO10172	Active	798559 Stephen Miksis	Certified
2SSO10172	Active	799027 Stephen Miksis	Certified
2SSO10172	Active	799176 Stephen Miksis	Certified
2SSO10172	Active	800410 Stephen Miksis	Certified
2SSO10172	Active	801032 Stephen Miksis	Certified
2SSO10175	Active	711896 Tony Pullin	Certified
2SSO10175	Active	730499 Tony Pullin	Certified
2SSO10175	Active	746478 Tony Pullin	Certified
2SSO10175	Active	758457 David Partida	Certified
2SSO10175	Active	759671 DavidPartida	Certified
2SSO10175	Active	764829 James Thrall	Certified
2SSO10175	Active	773427 Kevin Antonelli	Certified
2SSO10175	Active	773484 David Partida	Certified
2SSO10175	Active	776285 David Partida	Certified
2SSO10175	Active	776355 nelson sandoval	Certified
2SSO10175	Active	776402 nelson sandoval	Certified
2SSO10175	Active	798461 Tony Pullin	Certified
2SSO10176	Active	650698 Dennis Bosch	Certified
2SSO10176	Active	651511 Dennis Bosch	Certified
2SSO10176	Active	651751 Dennis Bosch	Certified
2SSO10176	Active	651973 Dennis Bosch	Certified
2SSO10176	Active	652328 Dennis Bosch	Certified
2SSO10176	Active	652331 Dennis Bosch	Certified
2SSO10176	Active	653972 Dennis Bosch	Certified
2SSO10176	Active	654176 Dennis Bosch	Certified
2SSO10176	Active	655451 Dennis Bosch	Certified
2SSO10176	Active	655492 Dennis Bosch	Certified
2SSO10176	Active	656773 Dennis Bosch	Certified
2SSO10176	Active	657337 Dennis Bosch	Certified
2SSO10176	Active	657402 Dennis Bosch	Certified
2SSO10176	Active	657511 Dennis Bosch	Certified
2SSO10176	Active	657512 Dennis Bosch	Certified
2SSO10176	Active	657822 Dennis Bosch	Certified
2SSO10176	Active	704412 Dennis Bosch	Certified
2SSO10176	Active	704426 Dennis Bosch	Certified
2SSO10176	Active	705005 Dennis Bosch	Certified
2SSO10176	Active	705160 Dennis Bosch	Certified
2SSO10176	Active	705178 Dennis Bosch	Certified
2SSO10176	Active	705186 Dennis Bosch	Certified
2SSO10176	Active	705355 Dennis Bosch	Certified
2SSO10176	Active	705592 Dennis Bosch	Certified
2SSO10176	Active	707558 Dennis Bosch	Certified
2SSO10176	Active	707591 Dennis Bosch	Certified
2SSO10176	Active	708069 Dennis Bosch	Certified
2SSO10176	Active	708403 Dennis Bosch	Certified
2SSO10176	Active	708684 Dennis Bosch	Certified
2SSO10176	Active	709649 Dennis Bosch	Certified
2SSO10176	Active	709955 Dennis Bosch	Certified
2SSO10176	Active	710146 Dennis Bosch	Certified
2SSO10176	Active	710269 Dennis Bosch	Certified
2SSO10176	Active	710277 Dennis Bosch	Certified
2SSO10176	Active	710300 Dennis Bosch	Certified
2SSO10176	Active	710394 Dennis Bosch	Certified
2SSO10176	Active	710734 Dennis Bosch	Certified

[illegible]

San Rafael	976234
San Rafeal	922389
San Rafael	101074
San Rafael	149575
San Rafael	715301
San Rafael	861650
	12:59 621616
	13:20 170394
	8:27 371850
	8:04 466535
SAM 15:37	335903
SAM 15:12	229417
SAM	504884
SAM 8:27	311297
	15:35 917441
sam @15:50pm	115639
sam @8 am on 1/26/12	437083
Half Moon Bay, CA	975773
San Bruno, Ca	610145
San Bruno, Ca	939217
San Bruno, Ca	501230
San Bruno, Ca	908358
San Bruno, Ca	457019
San Bruno, Ca	221530
San Bruno, Ca	709132
San Bruno, Ca	464754
San Bruno, Ca	670753
San Bruno, Ca	539215
San Bruno, Ca	966647
San Bruno, Ca	336577
San Bruno, Ca	515476
San Bruno, Ca	538174
San Bruno, Ca	558427
San Bruno, Ca	489530
San Bruno, Ca	415564
San Bruno, Ca	971863
San Bruno, Ca	158689
San Bruno, Ca	845946
San Bruno, Ca	660424
San Bruno, Ca	818156
San Bruno, Ca	786448
San Bruno, Ca	426309
San Bruno, Ca	360534
San Bruno, Ca	500444
San Bruno, Ca	371264
San Bruno, Ca	970675
San Bruno, Ca	830455
San Bruno, Ca	840614
San Bruno, Ca	307686
San Bruno, Ca	486109
San Bruno, Ca	188561
San Bruno, Ca	470191
San Bruno, Ca	151907
San Bruno, Ca	213219
San Bruno, Ca	952417

5-Sep-13	9/5/2013	10-Sep-13	9/10/2013
6-Sep-13	9/6/2013	16-Sep-13	9/16/2013
24-Sep-13	9/24/2013	12-Nov-13	11/12/2013
26-Sep-13	9/26/2013	12-Nov-13	11/12/2013
30-Oct-13	11/12/2013	15-Nov-13	11/15/2013
22-Nov-13	11/22/2013	22-Nov-13	11/22/2013
26-Jan-08		8-Feb-08	2/8/2008
12-Dec-08		12-Dec-08	12/12/2008
4-Nov-09		4-Nov-09	11/4/2009
10-Nov-10	11/10/2010	10-Nov-10	11/10/2010
21-Dec-10	12/21/2010	21-Dec-10	12/21/2010
25-Mar-11	3/25/2011	25-Mar-11	3/25/2011
23-Nov-11	11/23/2011	23-Nov-11	11/23/2011
24-Nov-11	11/24/2011	24-Nov-11	11/29/2011
23-Jan-12	1/23/2012	23-Jan-12	1/23/2012
24-Jan-12	1/24/2012	24-Jan-12	1/24/2012
26-Jan-12	1/26/2012	26-Jan-12	1/26/2012
4-Sep-13	9/4/2013	4-Sep-13	9/4/2013
18-May-07		18-May-07	10/6/2008
8-Jun-07		8-Jun-07	10/6/2008
12-Jun-07		20-Jun-07	10/6/2008
15-Jun-07		20-Jun-07	10/6/2008
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19-Jun-07		20-Jun-07	10/6/2008
11-Jul-07		11-Jul-07	10/6/2008
16-Jul-07		16-Jul-07	10/6/2008
8-Aug-07		8-Aug-07	10/6/2008
8-Aug-07		8-Aug-07	10/6/2008
4-Sep-07		4-Sep-07	10/6/2008
12-Sep-07		12-Sep-07	10/6/2008
13-Sep-07		13-Sep-07	10/6/2008
17-Sep-07		17-Sep-07	10/6/2008
17-Sep-07		17-Sep-07	10/6/2008
21-Sep-07		21-Sep-07	10/6/2008
1-Oct-07		1-Oct-07	10/6/2008
1-Oct-07		1-Oct-07	10/6/2008
11-Oct-07		11-Oct-07	10/6/2008
12-Oct-07		12-Oct-07	10/6/2008
15-Oct-07		15-Oct-07	10/6/2008
15-Oct-07		15-Oct-07	10/6/2008
16-Oct-07		16-Oct-07	10/6/2008
17-Oct-07		17-Oct-07	10/6/2008
13-Nov-07		13-Nov-07	10/6/2008
13-Nov-07		13-Nov-07	10/6/2008
26-Nov-07		26-Nov-07	10/1/2008
29-Nov-07		29-Nov-07	10/1/2008
4-Dec-07		4-Dec-07	10/1/2008
18-Dec-07		18-Dec-07	10/1/2008
20-Dec-07		20-Dec-07	10/1/2008
20-Dec-07		20-Dec-07	10/1/2008
26-Dec-07		26-Dec-07	10/1/2008
26-Dec-07		26-Dec-07	10/1/2008
26-Dec-07		26-Dec-07	10/1/2008
26-Dec-07		26-Dec-07	10/1/2008
7-Jan-08		7-Jan-08	10/1/2008

Category 3	0	675	0
Category 3	0	600	600
Category 3	50	50	0
Category 3	150	150	0
Category 1	0	55720	7000
Category 1	0	600	100
Category 1		132710	0
Category 1		500	0
Category 1		500	250
Category 1		600	90
Category 1		3162	0
Category 3		870	870
Category 3		20	0
Category 1		200	0
Category 1		3136	500
Category 3		500	0
Category 1		500	0
Category 3		5	0
Category 1		115	10
Category 1		3700	2500
Category 3		70	0
Category 3		30	20
Category 3		30	25
Category 1		675	450
Category 1		130	50
Category 3		80	20
Category 3		150	90
Category 3		3	1
Category 3		10	10
Category 1		3400	1800
Category 3		400	0
Category 3		150	0
Category 3		5	2
Category 3		50	30
Category 1		750	50
Category 3		15	0
Category 1		2000	1400
Category 1		1000	0
Category 3		10	2
Category 3		30	10
Category 3		15	2
Category 3		55	30
Category 3		3	0
Category 1		2075	300
Category 1		1500	10
Category 3		50	30
Category 2		57934	0
Category 3		840	5
Category 3		45	0
Category 3		50	45
Category 3		10	5
Category 3		5	5
Category 1		1005	50
Category 3		20	20
Category 1		9000	0

0 No	No
0 No	No
0 No	No
0 No	No
55720 Yes	No
600 Yes	No
132710 Yes	No
500 Yes	Yes
250 Yes	Yes
510 Yes	Yes
3162 Yes	Yes
0 No	No
0 No	Yes
100 Yes	Yes
2636 Yes	Yes
0 No	No
500 Yes	Yes
0 No	No
105 No	Yes
1200 No	Yes
0 No	No
0 No	No
0 No	No
225 Yes	Yes
80 No	Yes
0 No	No
0 No	No
0 No	No
0 No	No
3400 Yes	Yes
0 No	No
0 No	No
0 No	No
0 No	No
700 No	Yes
0 No	No
600 No	Yes
1000 Yes	Yes
0 No	No
0 No	No
0 No	No
0 No	Yes
0 No	No
1775 No	Yes
1490 No	Yes
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
955 No	Yes
0 No	No
9000 No	Yes

Not Applicable - Spill did not reach a separate storm drainpipe
Not Applicable - Spill did not reach a separate storm drainpipe
Not Applicable - Spill did not reach a separate storm drainpipe
Not Applicable - Spill did not reach a separate storm drainpipe
Not Applicable - Spill did not reach a separate storm drainpipe
Not Applicable - Spill did not reach a separate storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
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Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
No
Not Applicable - Spill did not reach storm drainpipe
No
No
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
No
Not Applicable - Spill did not reach storm drainpipe
No
No
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
No
Not Applicable - Spill did not reach storm drainpipe
No

11 Coogan Ave
Del Monte and Sir Francis Drake
8 Ivy Lane San Anselmo
369 Wilson Way Larkspur
11 Evergreen, Kent Woodlands, CA
1 Veterans Pl San Anselmo
Montara PS
Vallemar Street IPS
CalTrans right of way adjacent to El Granada Elementry School
2084 Vallemar st
Vallemar st
Princeton Pump station
Vallemar St.
Vallemar st
Coronado st
vallemar
coronado
141 california ave
695 San Mateo Ave.
2429 Trenton Drive
2740 Chabot Dr.
291 Bryant Wy
2335 Trenton Dr.
2575 Olympic Dr.
741 Masson Ave
774 Chestnut Ave.
1151 Huntington Ave.
901 6th Ave
466 San Mateo Ave.
Crestmoor Canyon (easement behind Claremont Dr.
Crestmoor Canyon
483 Oak Ave.
630 Skyline Drive
823 Hensley Ave.
Traeger Ave.
1711 El Camino Real
Trenton Outfall
San Antonio Ave @ Santa Clara
2001 Whitman way
799 El Camino Real
Manhole #45, Intersection of Santa Clara Ave. and San Antonio Ave.
799 El Camino Real
2359 Trenton Drive
2481 Trenton Drive
345 El Camino Real
701 Linden Ave
1560 Claremont Drive
364 El Camino Real
421 Acacia Ave.
565 East San Bruno Ave.
483 East San Bruno Ave.
416 Euclid Ave.
560 East San Bruno Ave.
1501 Donner Ave.
3496 Highland Drive (Pacific Heights Sewer Pump Station)

37.97855	-122.55826 Marin
37.9445	-122.51799 Marin
37.97771	-122.58027 Marin
37.93348	-122.55213 Marin
37.94845	-122.55385 Marin
37.983772	-122.565636 Marin
37.53707	122.51837 San Mateo
37.53131	122.51708 San Mateo
37.49932	-122.46538 San Mateo
37.53215	-122.51752 San Mateo
37.53215	-122.51755 San Mateo
37.50351	-122.49456 San Mateo
37.3193	-122.310554 San Mateo
37.3193	-122.31055 San Mateo
37.50005	-122.4672 San Mateo
37.3193	-122.31055 San Mateo
37.50005	-122.4672 San Mateo
37.302	-122.2924 San Mateo
37.62815	-122.41167 San Mateo
37.62074	-122.43144 San Mateo
37.63389	-122.45202 San Mateo
37.61055	-122.43392 San Mateo
37.62291	-122.43113 San Mateo
37.63787	-122.4551 San Mateo
37.62873	-122.41321 San Mateo
37.62565	-122.42284 San Mateo
37.63931	-122.41675 San Mateo
37.63293	-122.40704 San Mateo
37.62349	-122.411 San Mateo
37.62282	-122.43864 San Mateo
37.627274	-122.437747 San Mateo
37.6199	-122.4178 San Mateo
37.61482	-122.43779 San Mateo
37.62967	-122.41627 San Mateo
37.627	-122.4218 San Mateo
37.61414	-122.40573 San Mateo
37.62264	-122.43104 San Mateo
37.61459	-122.4019 San Mateo
37.61701	-122.42579 San Mateo
37.6284	-122.41671 San Mateo
37.61459	-122.4019 San Mateo
37.6284	-122.41671 San Mateo
37.62239	-122.43095 San Mateo
37.61979	-122.434 San Mateo
37.62146	-122.41179 San Mateo
37.62663	-122.41688 San Mateo
37.62174	-122.4398 San Mateo
37.62048	-122.41072 San Mateo
37.62017	-122.41502 San Mateo
37.63087	-122.40805 San Mateo
37.63086	-122.40867 San Mateo
37.63167	-122.41577 San Mateo
37.63087	-122.40811 San Mateo
37.61549	-122.41606 San Mateo
37.6351	-122.46885 San Mateo

[illegible]

Sewage came out the ground due to having a severely fractured pipe. Site and defect was repaired

A spill had occurred and was all dried up paper and towels.

The pipe was separated under a bridge crossing Tamalpias Creek that was embedded in concrete. The bottom of the cor

Field between El Granada Elementry School and Hwy 1

Spill was in Moss Beach, CA . From a force main that belongs to the Sewer Authority Mid-Coastside in Half Moon Bay no
Air relief valve pit (manhole).

Sewage seeping out on vallemar st from ruptured force main

Raw sewage seeping out of asphalt on coronado st

sewage coming out of asphalt in the street

Sanitary sewer manhole at the rear of property.

Manhole located in street

Sanitary Sewer Manhole at rear of residence.

Cleanout located in front of residence.

City parking lot.

Gravity sewer-back yard location.

Sewage from blocked sewer main, entered business and exited front door to sidewalk/gutter.

Cleanout to building.

Cleanout of business.

Cleanout.

Manhole located in a backyard easement.

State Road SR-82

Manhole near intersection.

Underground lateral-main connection was disconnected during main rehabilitation project. Lateral was not reconnected to

Sewer manhole at lift station.

1
1
1
1
1
1
1

t Moss Beach. The initial two hour notifi

new main once the new pipe was instal

Other (specify)
Force Main
Gravity Mainline
Other sewer system structure
Gravity Mainline
Lateral Clean Out (Private)
Pump station
Force main or pressure sewer
Force main or pressure sewer
Force main or pressure sewer
Force main or pressure sewer;Manhole
Force main or pressure sewer
Force main or pressure sewer
Force main or pressure sewer
Force main or pressure sewer
Force main or pressure sewer
Force main or pressure sewer
Other (specify)
Manhole
Manhole
Manhole
Manhole
Gravity sewer
Gravity sewer
Manhole
Manhole
Manhole
Other sewer system structure
Gravity sewer
Gravity sewer
Gravity sewer
Gravity sewer
Other sewer system structure
Other sewer system structure
Manhole
Other (specify)
Manhole
Manhole
Other sewer system structure
Other sewer system structure
Manhole
Other sewer system structure
Other sewer system structure
Manhole
Manhole
Manhole
Gravity sewer
Manhole
Other (specify)
Other sewer system structure
Other sewer system structure
Other sewer system structure
Other sewer system structure
Other sewer system structure
Pump station

Sewage came out of the ground

Contractor was attempting to perform cathode testing and the as built said the pipe was steel incased in concrete. The pipe
Sewage came out of the manhole.

Rod Hole

I will try to attach video of sewage going into the exposed bridge wall.

Main influent line slip coupler came apart at pump inside the dry well

spill came from leaking air release valve

Cleanout located in front of residence.

Floor drain within business.

Cleanout to business.

4 inch lateral approx. 7 feet underground.

City cleanout for residence.

At City cleanout to residence.

City cleanout to residence.

City cleanout to residence.

City cleanout to residence.

City cleanout to residence.

Sewer lift station was unable to keep up with Inflow and Infiltration from large storm event.

Unpaved surface
Unpaved surface;Other paved surface
Paved Surface
Unpaved surface
Drainage Channel
Drainage Channel
Surface water
Storm drain;Surface water
Other paved surface;Storm drain;Street/curb and gutter;Unpaved surface
Beach;Separate storm drain
Other paved surface;Separate storm drain;Surface water
Other paved surface;Unpaved surface
Other paved surface;Separate storm drain;Street/curb and gutter
Other paved surface;Separate storm drain;Surface water
Beach;Separate storm drain;Street/curb and gutter
Unpaved surface
Beach;Surface water
Street/curb and gutter
Storm drain
Storm drain
Other paved surface
Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Storm drain
Other (specify below)
Storm drain
Street/curb and gutter
Other paved surface
Surface water
Unpaved surface
Unpaved surface
Street/curb and gutter
Street/curb and gutter
Storm drain;Street/curb and gutter
Street/curb and gutter
Other paved surface;Storm drain;Street/curb and gutter;Unpaved surface
Other paved surface;Storm drain;Street/curb and gutter
Street/curb and gutter
Other paved surface
Unpaved surface
Storm drain
Unpaved surface
Storm drain
Other paved surface;Storm drain;Street/curb and gutter
Storm drain;Street/curb and gutter
Street/curb and gutter
Storm drain;Street/curb and gutter
Street/curb and gutter
Other paved surface;Storm drain;Street/curb and gutter
Unpaved surface
Other paved surface
Storm drain;Street/curb and gutter
Storm drain;Street/curb and gutter
Storm drain;Street/curb and gutter

Sewage ponded around the manhole.

They creek had ponding and most of the sewage went into the ground.

Pacific Ocean

Pacific ocean

spill was drained back into wet well.

no sewer was recovered, 100 gallons of the 200 stayed on pavement.

on ground (street)

The sewage spilled into a near by valley gutter and was captured and returned to the sewer main.

Grass, dirt area.

spill discharged over dirt hillside before reaching paved street gutter and finally to the stormdrain.

Grass-lawn area.

Grass-lawn area.

9/3/2013 6:30	9/3/2013 11:47	9/3/2013 12:05	9/3/2013 12:30
9/5/2013 11:28	9/5/2013 11:28	9/5/2013 11:28	9/5/2013 12:06
9/22/2013 19:30	9/22/2013 20:00	9/22/2013 20:45	9/22/2013 21:00
9/20/2013 0:00	9/23/2013 11:30	9/23/2013 12:00	9/20/2013 0:00
10/14/2013 6:00	10/28/2013 8:38	10/28/2013 9:27	10/28/2013 14:27
11/20/2013 18:00	11/20/2013 18:10	11/20/2013 19:00	11/20/2013 19:45
1/25/2008 18:20	1/25/2008 18:20	1/25/2008 12:45	1/26/2008 1:43
12/6/2008 13:00	12/6/2008 13:00	12/6/2008 13:25	12/6/2008 14:15
11/1/2009 12:30	11/1/2009 12:30	11/1/2009 13:09	11/1/2009 15:00
11/7/2010 12:10	11/7/2010 12:10	11/7/2010 12:20	11/7/2010 13:40
12/19/2010 9:07	12/19/2010 9:07	12/19/2010 9:20	12/19/2010 9:20
3/24/2011 8:30	3/24/2011 8:30	3/24/2011 8:30	3/24/2011 8:40
11/22/2011 15:00	11/22/2011 15:00	11/22/2011 15:00	11/22/2011 16:00
11/24/2011 14:52	11/24/2011 14:52	11/24/2011 15:10	11/24/2011 15:30
1/21/2012 8:30	1/21/2012 8:30	1/21/2012 8:35	1/21/2012 9:40
1/24/2012 13:42	1/24/2012 13:42	1/24/2012 14:00	1/24/2012 14:00
1/25/2012 9:30	1/25/2012 9:30	1/25/2012 9:45	1/25/2012 22:00
9/4/2013 8:41	9/4/2013 8:45	9/4/2013 9:00	9/4/2013 9:45
5/18/2007 11:17	5/18/2007 11:17	5/18/2007 11:30	5/18/2007 11:40
6/7/2007 1:10	6/7/2007 1:10	6/7/2007 1:15	6/7/2007 2:24
6/9/2007 5:15	6/9/2007 4:45	6/9/2007 5:15	6/9/2007 6:30
6/11/2007 9:45	6/11/2007 9:30	6/11/2007 9:45	6/11/2007 10:15
6/14/2007 12:56	6/14/2007 12:56	6/14/2007 13:10	6/14/2007 13:25
6/18/2007 12:45	6/18/2007 12:30	6/18/2007 12:45	6/18/2007 13:30
7/9/2007 19:04	7/9/2007 19:04	7/9/2007 19:24	7/9/2007 19:30
7/16/2007 8:09	7/16/2007 8:09	7/16/2007 8:15	7/16/2007 8:25
8/7/2007 11:01	8/7/2007 11:01	8/7/2007 11:11	8/7/2007 11:16
8/5/2007 10:48	8/5/2007 10:48	8/5/2007 10:58	8/5/2007 10:58
9/1/2007 15:42	9/1/2007 15:42	9/1/2007 15:52	9/1/2007 16:00
9/11/2007 8:30	9/11/2007 8:30	9/11/2007 9:10	9/12/2007 10:20
9/13/2007 8:30	9/13/2007 8:30	9/13/2007 8:30	9/13/2007 8:50
9/15/2007 8:10	9/15/2007 8:13	9/15/2007 8:25	9/15/2007 8:40
9/16/2007 4:03	9/16/2007 4:05	9/16/2007 4:20	9/16/2007 4:20
9/20/2007 10:35	9/20/2007 10:35	9/20/2007 10:40	9/20/2007 11:00
9/30/2007 9:45	9/30/2007 9:45	9/30/2007 9:55	9/30/2007 10:00
10/1/2007 9:51	10/1/2007 9:51	10/1/2007 10:00	10/1/2007 10:07
10/10/2007 12:50	10/10/2007 12:40	10/10/2007 12:50	10/10/2007 1:10
10/12/2007 2:55	10/12/2007 2:45	10/12/2007 2:55	10/12/2007 3:15
10/14/2007 11:03	10/14/2007 11:03	10/14/2007 11:20	10/14/2007 11:25
10/12/2007 4:32	10/12/2007 4:32	10/12/2007 4:38	10/12/2007 4:38
10/16/2007 7:50	10/16/2007 7:50	10/16/2007 8:00	10/16/2007 8:00
10/17/2007 12:41	10/17/2007 12:41	10/17/2007 12:47	10/17/2007 12:52
11/12/2007 16:43	11/12/2007 16:43	11/12/2007 17:10	11/12/2007 17:10
11/13/2007 9:14	11/13/2007 9:14	11/13/2007 9:20	11/13/2007 10:37
11/22/2007 12:00	11/22/2007 12:00	11/22/2007 12:30	11/22/2007 13:00
11/29/2007 10:45	11/29/2007 10:45	11/29/2007 10:45	11/29/2007 10:55
12/6/2006 12:00	4/23/2007 10:00	11/19/2007 7:30	11/19/2007 13:00
12/18/2007 7:16	12/18/2007 7:16	12/18/2007 7:20	12/18/2007 7:30
12/19/2007 17:55	12/19/2007 17:55	12/19/2007 18:35	12/19/2007 18:35
12/20/2007 13:10	12/20/2007 13:10	12/20/2007 13:10	12/20/2007 13:10
12/24/2007 11:32	12/24/2007 11:32	12/24/2007 12:00	12/24/2007 13:00
12/24/2007 13:13	12/24/2007 13:13	12/24/2007 14:00	12/24/2007 14:00
12/25/2007 14:53	12/25/2007 14:53	12/25/2007 15:45	12/25/2007 16:00
12/26/2007 13:15	12/26/2007 13:15	12/26/2007 13:20	12/26/2007 13:20
1/4/2008 10:00	1/4/2008 10:00	1/4/2008 10:00	1/4/2008 17:00

Pipe structural problem/failure
Other (specify below)
Pipe Structural Problem/Failure
Root Intrusion
Pipe Structural Problem/Failure
Grease Deposition (FOG)
Rainfall exceeded design
Pipe structural problem/failure
Pipe structural problem/failure
Pipe structural problem/failure
Pipe structural problem/failure
Pump station failure
Pipe structural problem/failure
Pipe structural problem/failure
Pipe structural problem/failure
Pipe structural problem/failure
Pump station failure
Pipe structural problem/failure
Debris
Root intrusion
Debris
Root intrusion
Vandalism
Grease deposition (FOG)
Grease deposition (FOG)
Root intrusion
Grease deposition (FOG)
Grease deposition (FOG)
Grease deposition (FOG)
Other (specify below)
Pipe structural problem/failure
Root intrusion
Root intrusion
Debris
Root intrusion
Grease deposition (FOG)
Root intrusion
Root intrusion
Debris
Rainfall exceeded design
Grease deposition (FOG)
Grease deposition (FOG)
Root intrusion
Root intrusion
Grease deposition (FOG)
Grease deposition (FOG)
Operator error
Grease deposition (FOG)
Root intrusion
Grease deposition (FOG)
Root intrusion
Root intrusion
Grease deposition (FOG)
Root intrusion
Rainfall exceeded design

contractor punched hole in pipe

This section of pipe has multiple grade fixes and four upstream and downstream. It is scheduled for rehab. The blockage

There was a small separation of the pipe joint that is 6" VCP that was seen with CCTV.

Partial blockage in the 8" mainline.

Rupture on force main caused spill.

Ruptured force main

Found grease in air release valve

During excavation contractor hit and damaged sewer main pipe. They were able to contain the spill the majority of the time

Grease and silt within main line. Line was cleaned approx. one week prior.

Root intrusion in lateral line.

Rain event lasted approx. 7 hours. Spill calculations are based on 5 hours of time where the station could not keep up with

Main

Main

Gravity Mainline

Gravity Mainline

Gravity Mainline

Gravity Mainline

Other (specify below)

Main

Main

Other (specify below)

Other (specify below)

Other (specify below)

Other (specify below)

Main

Main

Main

Other (specify below)

Force Main

Broken Air relief valve
Influent main line coupler
Force Main
Force main
Force main

force main
air release valve

No	6 VCP
No	30 RCP
No	4 VCP
No	6 VCP
No	6 VCP
No	8 PVC

12 Iron

6 Clay
8 Clay

6 Clay
6 Clay
6 Clay
4 Clay
6

6

6 Clay
6 Clay
4 Clay
4 Clay
10 Clay
6 Clay

4 Clay
4 Clay
6 Clay
4 Clay
4 Clay
8 Clay
6 Clay
6 Clay
4 Clay
6 Clay
4 Clay
4 Clay
4 Clay
4 Clay
6 Clay
4 Clay
8 Plastic

60
40
60
60

2

25

60
60

80
60
60
60
60
100

60
80
65

60
100

60
80
80

55
55
80
90
50
60
70
80
80
80
80
55
6

Cleaned-Up;Mitigated Effects of Spill;Contained all or portion of spill;Returned Portion of Spill to Sanitary Sewer System;
Cleaned-Up;Mitigated Effects of Spill;Contained all or portion of spill;Restored flow;Returned Portion of Spill to Sanitary S
Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Contained all or portion of spill;Restored flow
Restored flow
Restored flow;Returned all or portion of spill to sanitary sewer system
Restored flow
Contained all or portion of spill
Restored flow;Returned all or portion of spill to sanitary sewer system
Cleaned-up (mitigated effects of spill)
Other (specify below)
Other (specify below)
Contained all or portion of spill
Returned all or portion of spill to sanitary sewer system
Cleaned-up (mitigated effects of spill);Restored flow
Returned all or portion of spill to sanitary sewer system
Cleaned-up (mitigated effects of spill);Contained all or portion of spill
Cleaned-up (mitigated effects of spill);Contained all or portion of spill
Returned all or portion of spill to sanitary sewer system
Contained all or portion of spill
Returned all or portion of spill to sanitary sewer system
Cleaned-up (mitigated effects of spill)
Returned all or portion of spill to sanitary sewer system
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow
Inspected sewer using CCTV to determine cause;Restored flow
Restored flow
Cleaned-up (mitigated effects of spill)
Cleaned-up (mitigated effects of spill);Contained all or portion of spill
Cleaned-up (mitigated effects of spill)
Restored flow;Returned all or portion of spill to sanitary sewer system
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill
Cleaned-up (mitigated effects of spill);Contained all or portion of spill
Cleaned-up (mitigated effects of spill)
Cleaned-up (mitigated effects of spill);Contained all or portion of spill
Contained all or portion of spill
Other (specify below)
Cleaned-up (mitigated effects of spill)
Cleaned-up (mitigated effects of spill);Contained all or portion of spill
Other (specify below)
Cleaned-up (mitigated effects of spill)
Cleaned-up (mitigated effects of spill);Contained all or portion of spill
Cleaned-up (mitigated effects of spill);Contained all or portion of spill
Cleaned-up (mitigated effects of spill);Contained all or portion of spill
Cleaned-up (mitigated effects of spill);Contained all or portion of spill
Cleaned-up (mitigated effects of spill);Contained all or portion of spill
Cleaned-up (mitigated effects of spill);Contained all or portion of spill
Restored flow

There was no blockage and the pipe had no roots. An odor complaint was called in and the Operators could smell sewage. Line has been put on a 3 month maintenance schedule till the reach can be repaired.

While Sewer Line was being repaired approximately 4000 gallons leaked into the excavation and all was captured by vacuum.

was not able to recover anything went straight into storm drain
shut off valve stopped leak will repair as soon as possible

Vactor truck was used to clean area.

1.) Returned sewage debris to sewer. 2.) cleaned area with Vactor and captured run off. 3.) Disinfected area around manhole.
1.) Returned all possible sewage to sewer 2.) Disinfected and washed down area
Sewage in gutter and storm drain was cleaned by Vactor truck. Area around manhole was also cleaned and disinfected.
11/26/07 City of San Bruno Public Works Department- Wastewater Division Spill Location: 1560 Claremont Drive, San Bruno, CA

Vactor was used to clean storm drain and area.
Vactor was used to clean storm drain and area.
No visible material to clean.

11/1/2013 16:00
11/22/2013 13:00
1/26/2008 1:43
12/9/2008 17:00
11/1/2009 20:30
11/7/2010 22:00
12/21/2010 16:30

11/22/2011 21:30
11/24/2011 0:00
1/22/2012 13:00

1/25/2012 22:00

5/18/2007 12:30
6/7/2007 7:00

6/18/2007 13:30
7/9/2007 19:30

9/12/2007 12:20

9/30/2007 10:45

10/10/2007 1:10
10/12/2007 3:15

10/17/2007 13:20

11/13/2007 11:25
11/22/2007 15:30

11/19/2007 13:00

12/25/2007 18:00

1/4/2008 18:00

Inspected Sewer Using CCTV to Determine Cause; Repaired Facilities or Replaced Defect
Added sewer to preventive maintenance program; Adjusted schedule/method of preventive maintenance; Inspected Sewer
Other (specify below)
Plan rehabilitation or replacement of sewer; Repaired sewer
Repaired sewer
Repaired sewer
Repaired sewer

Repaired sewer
Plan rehabilitation or replacement of sewer; Repaired sewer
Repaired sewer

Repaired sewer

Adjusted schedule/method of preventive maintenance
Adjusted schedule/method of preventive maintenance

Added sewer to preventive maintenance program
Added sewer to preventive maintenance program

Repaired sewer

Adjusted schedule/method of preventive maintenance

Adjusted schedule/method of preventive maintenance
Adjusted schedule/method of preventive maintenance

Added sewer to preventive maintenance program

Adjusted schedule/method of preventive maintenance
Added sewer to preventive maintenance program

Repaired sewer

Added sewer to preventive maintenance program

Plan rehabilitation or replacement of sewer

3 Point Repairs (Cured in Place Epoxy were installed overlapping through the base of the bridge. A Dye test was performed. The main has a large sag in the line. The 2 manholes downstream were buried so that cleaning could not properly be done. The Agency is currently evaluating project options which would increase storm capacity.

Overall Spill Description (field doesn't work) - Staff visually viewed 500 gallons and report as estimate. There was more :

Force main of station will be replaced/ upsized through the upcoming Rollingwood Sewer Basin improvement CIP Project

Possi

Yes

No
Yes

No
No

No

No

No
No

No

Yes
No

No

No

Yes

The creek / drainage ditch was completely dry about 500 feet below with no visual evidence of ponding or water.
Sewage came out a 6" PVC pipe into a drainage channel behind the veterans bar.
Spill entered the ocean in area that is very rocky and extremely turbulent. The waves were very large and the overflow was
Searched all possible entry points. SSO did not reach beach.

N/A

N/A
N/A
N/A
N/A

N/A

N/A

No
No

NA
Rocky coast adjacent to Pt Montara Lighthouse
N/A
NA

Surfers beach

surfers beach in el granada

NA
NA

N/A
NA

NA

N/A

N/A
N/A

N/A

N/A
N/A

N/A

N/A

N/A

Pacific Ocean
Pacific Ocean
NA
Pacific Ocean
Pacific Ocean

None
Pacific Ocean
Pacific ocean

pacific ocean

NA
NA

N/A
NA

San Francisco Bay

N/A

N/A
N/A

N/A

N/A
N/A

N/A

N/A

N/A

Dissolved oxygen;Biological indicator(s) - specify below

No water quality samples taken

No water quality samples taken

No water quality samples taken

No water quality samples taken

No water quality samples taken

No water quality samples taken

Not applicable to this spill

Not applicable to this spill

Biological indicator(s) - specify below

Other chemical indicator(s) - specify below

Not applicable to this spill

Not applicable to this spill

No water quality samples taken

Not applicable to this spill

No water quality samples taken

Not applicable to this spill

No water quality samples taken

No water quality samples taken

No water quality samples taken

Not applicable to this spill

No water quality samples taken;Not applicable to this spill

Not applicable to this spill

Not applicable to this spill

Not applicable to this spill

Ecoli, Entrococcus, Coliform

Colilert test and enterolert test

test for colilert test also a enterolert test

N/A

County Health Agency;Regional Water Quality Control Board;Other (specify below)

No water quality samples taken

No water quality samples taken

No water quality samples taken

None of the above

No water quality samples taken

No water quality samples taken

Not applicable to this spill

Not applicable to this spill

County Health Agency

County Health Agency

Not applicable to this spill

Not applicable to this spill

None of the above

Not applicable to this spill

No water quality samples taken

Not applicable to this spill

No water quality samples taken

No water quality samples taken

No water quality samples taken

Not applicable to this spill

No water quality samples taken;Not applicable to this spill

Not applicable to this spill

Not applicable to this spill

Not applicable to this spill

Wildlife Fish and Game

N/A

flow looked to about 15 gallon a minute coming out of the pic hole and the outside of the manhole lid.

Eye ball

Hard to tell due to the area being all dried up. Crews raked the area and found out that the homeowner was not there over
Engineering completed a excel spread sheet that will be attached. Initial test was using an orifice calculation. Using the b
Eyeball method was used to estimate how many gallons it would take to go from the cleanout and fill the side patio. A b

136682	10/28/2013 10:15
137178	11/20/2013 0:00
80780	1/26/2008 13:50
88722	12/6/2008 14:00
97351	11/1/2009 14:49
106702	11/7/2010 13:55
107625	12/19/2010 11:38

116956	11/22/2011 17:00
116989	11/24/2011 15:32
120413	1/21/2012 10:42

120525	1/25/2012 14:30
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73475	6/8/2007 9:13
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75556	9/12/2007 2:30
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76171	10/11/2007 12:50
76213	10/12/2007 4:00

76994	11/13/2007 11:40
77285	11/26/2007 10:00

77483	12/4/2007 8:14
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77919	12/26/2007 9:43
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80227	1/7/2008 9:35
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Stephen Miksis	4156861540
Stephen Miksis	4156861540
Manny Vigil	4157173102
Stephen Miksis	4156861540
Stephen Miksis	4156861540
Stephen Miksis	4156861540

2SSO10176	Active	711538 Dennis Bosch	Certified
2SSO10176	Active	711577 Dennis Bosch	Certified
2SSO10176	Active	711685 Dennis Bosch	Certified
2SSO10176	Active	711976 Dennis Bosch	Certified
2SSO10176	Active	711986 Dennis Bosch	Certified
2SSO10176	Active	711990 Dennis Bosch	Certified
2SSO10176	Active	711992 Dennis Bosch	Certified
2SSO10176	Active	711993 Dennis Bosch	Certified
2SSO10176	Active	711994 Dennis Bosch	Certified
2SSO10176	Active	712675 Dennis Bosch	Certified
2SSO10176	Active	713780 Dennis Bosch	Certified
2SSO10176	Active	715192 Dennis Bosch	Certified
2SSO10176	Active	715667 Dennis Bosch	Certified
2SSO10176	Active	716060 Dennis Bosch	Certified
2SSO10176	Active	716375 Dennis Bosch	Certified
2SSO10176	Active	716467 Dennis Bosch	Certified
2SSO10176	Active	716491 Dennis Bosch	Certified
2SSO10176	Active	717207 Dennis Bosch	Certified
2SSO10176	Active	717220 Dennis Bosch	Certified
2SSO10176	Active	717552 Dennis Bosch	Certified
2SSO10176	Active	719479 Dennis Bosch	Certified
2SSO10176	Active	722629 Dennis Bosch	Certified
2SSO10176	Active	723530 Dennis Bosch	Certified
2SSO10176	Active	723581 Dennis Bosch	Certified
2SSO10176	Active	724710 Dennis Bosch	Certified
2SSO10176	Active	725123 Dennis Bosch	Certified
2SSO10176	Active	725188 Dennis Bosch	Certified
2SSO10176	Active	726208 Dennis Bosch	Certified
2SSO10176	Active	726244 Dennis Bosch	Certified
2SSO10176	Active	726600 Dennis Bosch	Certified
2SSO10176	Active	727200 Dennis Bosch	Certified
2SSO10176	Active	728117 Dennis Bosch	Certified
2SSO10176	Active	728422 Dennis Bosch	Certified
2SSO10176	Active	728485 Dennis Bosch	Certified
2SSO10176	Active	728553 Dennis Bosch	Certified
2SSO10176	Active	728582 Dennis Bosch	Certified
2SSO10176	Active	728591 Dennis Bosch	Certified
2SSO10176	Active	728822 Dennis Bosch	Certified
2SSO10176	Active	729091 Dennis Bosch	Certified
2SSO10176	Active	729109 Dennis Bosch	Certified
2SSO10176	Active	729144 Dennis Bosch	Certified
2SSO10176	Active	729243 Dennis Bosch	Certified
2SSO10176	Active	729336 Dennis Bosch	Certified
2SSO10176	Active	729442 Dennis Bosch	Certified
2SSO10176	Active	729912 Dennis Bosch	Certified
2SSO10176	Active	730178 Dennis Bosch	Certified
2SSO10176	Active	730270 Dennis Bosch	Certified
2SSO10176	Active	730819 Dennis Bosch	Certified
2SSO10176	Active	731096 Dennis Bosch	Certified
2SSO10176	Active	731383 Dennis Bosch	Certified
2SSO10176	Active	731725 Dennis Bosch	Certified
2SSO10176	Active	731727 Dennis Bosch	Certified
2SSO10176	Active	731873 Dennis Bosch	Certified
2SSO10176	Active	731929 Dennis Bosch	Certified
2SSO10176	Active	732043 Dennis Bosch	Certified

[illegible]

San Bruno, Ca	675756
San Bruno, Ca	335481
San Bruno, Ca	111829
San Bruno, Ca	557066
San Bruno, Ca	129300
San Bruno, Ca	685187
San Bruno, Ca	361355
San Bruno, Ca	343514
San Bruno, Ca	476895
San Bruno, Ca	881905
San Bruno, Ca	544432
San Bruno, Ca	229122
San Bruno, Ca	498965
San Bruno, Ca	143846
San Bruno, Ca	413561
San Bruno, Ca	961279
San Bruno, Ca	826874
San Bruno, Ca	865651
San Bruno, Ca	857396
San Bruno, Ca	367407
San Bruno, Ca	773755
San Bruno, Ca	347572
San Bruno, Ca	914843
San Bruno, Ca	243123
San Bruno, Ca	372572
San Bruno, Ca	380567
San Bruno, Ca	188849
San Bruno, Ca	443825
San Bruno , Ca	468883
San Bruno, Ca	819147
San Bruno, Ca	175169
San Bruno, Ca	717983
San Bruno, Ca	854992
San Bruno, Ca	461138
San Bruno, Ca	596439
San Bruno, Ca	895498
San Bruno, Ca	261227
San Bruno, Ca	286782
San Bruno, Ca	406934
San Bruno, Ca	856980
San Bruno, Ca	252940
San Bruno, Ca	570867
San Bruno,Ca	230123
San Bruno, Ca	750427
San Bruno, Ca	117799
San Bruno, Ca	944823
San Bruno, Ca	752240
San Bruno, Ca	889996
San Bruno, Ca	241673
San Bruno, Ca	220845
San Bruno, Ca	535010
San Bruno, Ca	698691
San Bruno, Ca	266606
San Bruno, Ca	479060
San Bruno, Ca	205287

23-Jan-08	23-Jan-08	10/1/2008
23-Jan-08	23-Jan-08	10/1/2008
24-Jan-08	24-Jan-08	10/1/2008
29-Jan-08	29-Jan-08	9/29/2008
29-Jan-08	29-Jan-08	10/6/2008
29-Jan-08	29-Jan-08	10/6/2008
29-Jan-08	29-Jan-08	9/29/2008
29-Jan-08	29-Jan-08	9/29/2008
29-Jan-08	29-Jan-08	9/29/2008
11-Feb-08	11-Feb-08	9/29/2008
25-Feb-08	25-Feb-08	1/31/2011
24-Mar-08	24-Mar-08	9/29/2008
2-Apr-08	2-Apr-08	9/29/2008
11-Apr-08	11-Apr-08	9/29/2008
22-Apr-08	22-Apr-08	9/29/2008
24-Apr-08	24-Apr-08	9/29/2008
24-Apr-08	24-Apr-08	10/6/2008
12-May-08	12-May-08	9/29/2008
12-May-08	12-May-08	9/29/2008
19-May-08	19-May-08	9/29/2008
13-Jun-08	13-Jun-08	9/29/2008
16-Jul-08	16-Jul-08	9/29/2008
25-Jul-08	25-Jul-08	9/29/2008
26-Jul-08	26-Jul-08	9/29/2008
14-Aug-08	14-Aug-08	9/29/2008
25-Aug-08	25-Aug-08	9/29/2008
26-Aug-08	26-Aug-08	9/29/2008
12-Sep-08	12-Sep-08	9/29/2008
15-Sep-08	15-Sep-08	9/29/2008
22-Sep-08	22-Sep-08	9/26/2008
1-Oct-08	1-Oct-08	10/1/2008
20-Oct-08	20-Oct-08	10/20/2008
23-Oct-08	23-Oct-08	10/23/2008
24-Oct-08	24-Oct-08	10/24/2008
27-Oct-08	27-Oct-08	10/27/2008
28-Oct-08	28-Oct-08	10/28/2008
28-Oct-08	28-Oct-08	10/28/2008
3-Nov-08	3-Nov-08	11/3/2008
7-Nov-08	7-Nov-08	11/7/2008
10-Nov-08	10-Nov-08	11/10/2008
12-Nov-08	12-Nov-08	11/12/2008
13-Nov-08	13-Nov-08	11/13/2008
18-Nov-08	18-Nov-08	11/18/2008
19-Nov-08	20-Nov-08	1/31/2011
26-Nov-08	26-Nov-08	11/26/2008
3-Dec-08	3-Dec-08	12/3/2008
8-Dec-08	8-Dec-08	12/8/2008
19-Dec-08	19-Dec-08	12/19/2008
26-Dec-08	26-Dec-08	1/6/2009
5-Jan-09	5-Jan-09	1/5/2009
12-Jan-09	12-Jan-09	1/12/2009
12-Jan-09	12-Jan-09	1/12/2009
14-Jan-09	14-Jan-09	1/14/2009
15-Jan-09	15-Jan-09	1/15/2009
16-Jan-09	16-Jan-09	1/16/2009

Category 3	3	0
Category 3	4	2
Category 3	50	5
Category 1	756000	0
Category 1	576000	0
Category 1	108000	0
Category 1	108000	0
Category 1	12000	0
Category 1	3000	0
Category 3	50	50
Category 1	1250	0
Category 1	825	300
Category 3	10	10
Category 3	150	150
Category 3	20	20
Category 3	825	150
Category 3	10	10
Category 1	2625	100
Category 3	5	5
Category 3	180	180
Category 1	525	0
Category 1	75	25
Category 3	50	50
Category 1	75	55
Category 1	450	150
Category 3	10	0
Category 3	20	5
Category 3	100	100
Category 3	100	100
Category 1	100	20
Category 3	20	5
Category 3	5	5
Category 3	13	13
Category 1	200	100
Category 3	45	45
Category 3	42	42
Category 3	10	0
Category 3	800	800
Category 3	50	50
Category 3	50	50
Category 3	30	30
Category 3	60	30
Category 1	500	0
Category 3	30	30
Category 3	220	220
Category 3	150	150
Category 3	25	25
Category 3	200	200
Category 1	7300	1000
Category 3	360	360
Category 3	50	0
Category 3	10	5
Category 3	20	20
Category 3	300	300
Category 3	50	50

0 No	No
0 No	No
0 No	No
756000 No	Yes
576000 No	Yes
108000 No	Yes
108000 No	Yes
12000 No	Yes
3000 No	Yes
0 No	No
1250 No	Yes
525 Yes	Yes
0 No	No
0 No	No
0 No	No
0 No	No
0 No	No
2525 Yes	Yes
0 No	No
0 No	Yes
525 No	Yes
50 No	Yes
0 No	No
20 Yes	Yes
300 No	Yes
0 No	No
0 No	No
0 No	Yes
0 No	Yes
80 No	Yes
0 No	No
0 No	No
0 No	Yes
100 No	Yes
0 No	Yes
0 No	Yes
0 No	No
0 No	No
0 No	Yes
0 No	Yes
0 No	No
0 No	Yes
500 No	Yes
0 No	Yes
0 No	No
0 No	Yes
0 No	Yes
0 No	No
6300 No	Yes
0 No	Yes
0 No	No
0 No	No
0 No	No
0 No	Yes
0 No	Yes

Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
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Not Applicable - Spill did not reach storm drainpipe
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Yes
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Yes
Yes

541 Elm Ave.
2601 Cottonwood Drive
2641 Crestmoor Drive
3496 Highland Drive
Earl Drive at Sneath Lane (Intersection)
Rollingwood Drive at Sneath Lane
Susan Drive at Fasman Drive (Intersection)
Kains Ave @ Masson Ave (Intersection)
Crystal Springs Road at Linden Ave. (Intersection)
901 6th Ave.
398 El Camino Real (SR-82)
424 San Mateo Ave.
540 2nd Ave.
Intersection of Oakmont Drive and Chabot Drive
1811 Parkview Drive.
161 Fernwood Drive
Intersection of Sneath Lane and Engvall Canyon
Engvall Canyon
217 El Camino Real (SR-82)
61 Tanforan Ave.
Intersection of Crestmoor Drive and Kingston Way
Donner Ave. @ Palomar Ct.
1000 San Mateo Ave.
464 Milton Ave.
290 Lowell Ave.
2339 Trenton Drive
333 Acacia Ave.
San Bruno
462 Milton Ave.
241 El Camino Real
466 Milton Ave.
9016th Ave.
799 El Camino Real SR-82
816 5th Ave.
596 Skyline Blvd.
Intersection of Linden Ave. and Kains Ave.
795 5th Ave.
179 Linden Ave.
430 San Antonio Ave.
Intersection of Kains Ave. and Linden Ave.
416 Euclid Ave.
2101 Sneath Lane
2001 Whitman Way
2001 Whitman Way
483 Oak Ave.
890 El Camino real SR-82
823 Hensley Ave.
940 Hensley Ave.
20 Livingston Terrace
2010 Rollingwood Drive
467 Oak Ave.
608 6th Ave.
161 Diamond Ave.
Intersection of Scott Ave. and Montgomery Ave.
100 San Bruno Ave.

37.62317	-122.41618 San Mateo
37.62949	-122.44556 San Mateo
37.62045	-122.43704 San Mateo
37.6351	-122.46885 San Mateo
37.6246	-122.4464 San Mateo
37.631	-122.4351 San Mateo
37.6329	-122.456 San Mateo
37.62797	-122.41248 San Mateo
37.61974	-122.41171 San Mateo
37.63293	-122.40704 San Mateo
37.62096	-122.41077 San Mateo
37.6221	-122.41101 San Mateo
37.62569	-122.40748 San Mateo
37.63304	-122.45342 San Mateo
37.61068	-122.41633 San Mateo
37.63447	-122.4402 San Mateo
37.6286	-122.4377 San Mateo
37.62282	-122.43864 San Mateo
37.61828	-122.40929 San Mateo
37.63996	-122.41439 San Mateo
37.62188	-122.43463 San Mateo
37.61594	-122.41603 San Mateo
37.63493	-122.4096 San Mateo
37.62387	-122.40919 San Mateo
37.61358	-122.43095 San Mateo
37.62278	-122.43109 San Mateo
37.61897	-122.4138 San Mateo
37.63479	-122.41265 San Mateo
37.62391	-122.40898 San Mateo
37.61864	-122.4099 San Mateo
37.62389	-122.4092 San Mateo
37.63293	-122.40704 San Mateo
37.6284	-122.41671 San Mateo
37.63131	-122.40744 San Mateo
37.61255	-122.43568 San Mateo
37.6265	-122.4163 San Mateo
37.63066	-122.40787 San Mateo
37.61664	-122.40912 San Mateo
37.61684	-122.40366 San Mateo
37.62691	-122.4167 San Mateo
37.63167	-122.41577 San Mateo
37.6286	-122.4377 San Mateo
37.61701	-122.42579 San Mateo
37.61701	-122.42579 San Mateo
37.6199	-122.4178 San Mateo
37.6305	-122.41719 San Mateo
37.62967	-122.41627 San Mateo
37.63177	-122.41725 San Mateo
37.62322	-122.42962 San Mateo
37.63074	-122.43692 San Mateo
37.61938	122.41743 San Mateo
37.62856	122.40545 San Mateo
37.63558	122.41388 San Mateo
37.63479	122.41265 San Mateo
37.6306	122.41207 San Mateo

[illegible]

Lateral Cleanout in lawn
City cleanout to residence.

Spill from 7 sewer manholes. Each with a flow of 150 GPM. Manholes flow to near by sewer lift station.
Sewer manhole at intersection.
Sewer manhole at intersection.
Sewer manhole at intersection.
Sewer manhole at intersection.
Sewer manhole at intersection.
City cleanout to residence.
Manhole in street.

Lamphole located in intersection.
City cleanout in driveway.
Sewage backflow into a residence.
Manhole near intersection.
Sewer Manhole located in Canyon area.
City cleanout.
Sewer manhole in street.
Sewer manhole in intersection of street.

Sewer manhole located to the rear of the property.
Cleanout of residential house.
Sewer manhole in street.
Cleanout at rear of residence.
Private cleanout to residence.
Main spill at initially 3 gpm in residential street
Cleanout to apartment building.
City cleanouts to two buildings.
Cleanout to apartment building.
Cleanout to residence.
Cleanout to buisness.
Cleanout to residence.
Sewer manhole.
Intersection of roads. Manhole number # 1515.
Cleanout to residence.
Sewer manhole at rear of residence.
Cleanout located in sidewalk.
Manhole in center of intersection.
Cleanout to residence.
Sewer manhole near intersection.
Cleanout to large apartment building.

City cleanout located at the rear of the property.
Cleanout to building.

Sewer manhole in street.
Cleanout to food business.
Cleanout in back yard area.
Cleanout to residence.
Cleanout to residence.

Cleanout to residence.

Gravity sewer
Other sewer system structure
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Other sewer system structure
Manhole
Manhole
Other sewer system structure
Other sewer system structure
Other sewer system structure
Other (specify)
Manhole
Manhole
Other sewer system structure
Manhole
Manhole
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Manhole
Other sewer system structure
Manhole
Other sewer system structure
Other sewer system structure
Manhole
Other sewer system structure
Other sewer system structure
Other sewer system structure
Other sewer system structure
Other sewer system structure
Other sewer system structure
Gravity sewer
Manhole
Other sewer system structure
Manhole
Other sewer system structure
Manhole
Other sewer system structure
Manhole
Other sewer system structure
Other (specify)
Gravity sewer
Other sewer system structure
Other sewer system structure
Manhole
Manhole
Other sewer system structure
Other sewer system structure
Other sewer system structure
Other sewer system structure
Manhole
Other sewer system structure

Cleanout.

Sewer manhole at rear of building, near City parking lot.

Blockage in main caused sewage to back up private lateral. Property owner then used pump to pump out lateral to curb a
Lamphole-start of main.

Sewage exited a toilet within a home and then flowed outside to backyard Canyon area.

Manhole is a cleanout opening for one lateral of a business.

Manhole in street.

Lateral

Cleanout to building.

Cleanout.

Grass in front of residence.

Manhole near intersection.

Unpaved surface
Other (specify below)
Storm drain;Street/curb and gutter
Other paved surface;Storm drain;Street/curb and gutter
Other paved surface;Storm drain;Street/curb and gutter
Building or structure;Other paved surface;Storm drain
Other paved surface;Storm drain;Street/curb and gutter
Other paved surface;Storm drain;Street/curb and gutter
Other paved surface;Storm drain;Street/curb and gutter
Street/curb and gutter
Other paved surface;Separate storm drain;Street/curb and gutter
Storm drain;Street/curb and gutter
Street/curb and gutter
Storm drain;Street/curb and gutter
Storm drain;Street/curb and gutter
Unpaved surface
Storm drain;Street/curb and gutter
Unpaved surface;Other (specify below)
Street/curb and gutter
Storm drain;Street/curb and gutter
Storm drain
Storm drain
Other paved surface
Storm drain
Storm drain
Unpaved surface
Street/curb and gutter
Other paved surface;Storm drain;Street/curb and gutter
Storm drain;Street/curb and gutter
Storm drain
Other paved surface
Street/curb and gutter
Storm drain;Street/curb and gutter
Storm drain
Storm drain;Street/curb and gutter
Storm drain;Street/curb and gutter
Street/curb and gutter
Other (specify below)
Storm drain;Street/curb and gutter
Storm drain;Street/curb and gutter
Unpaved surface
Other paved surface;Storm drain
Storm drain;Street/curb and gutter
Other paved surface;Separate storm drain;Street/curb and gutter;Unpaved surface
Street/curb and gutter
Other paved surface;Storm drain
Other paved surface;Storm drain
Street/curb and gutter
Storm drain;Street/curb and gutter
Storm drain;Street/curb and gutter
Unpaved surface
Unpaved surface
Street/curb and gutter
Storm drain;Street/curb and gutter
Storm drain;Street/curb and gutter

Grass/Lawn area.

Sewage traveled over ground and into a storm drain culvert.
On sidewalk, around cleanout.

Spill reached curb and gutter.

Sewage exited manhole, and traveled to a floor drain that is connected to the sewer system.

Grass area around cleanout.

Ground, grass, asphalt, gutter, stormdrain

Grass area.

1/18/2008 9:52	1/18/2008 9:52	1/18/2008 10:10	1/18/2008 10:15
1/22/2008 15:53	1/22/2008 15:53	1/22/2008 16:20	1/22/2008 16:20
1/24/2008 7:55	1/24/2008 7:55	1/24/2008 7:59	1/24/2008 8:05
1/25/2008 12:00	1/25/2008 12:00	1/25/2008 12:00	1/26/2008 0:01
1/25/2008 12:00	1/25/2008 12:00	1/25/2008 12:00	1/26/2008 4:00
1/25/2008 12:00	1/25/2008 12:00	1/25/2008 12:00	1/26/2008 0:01
1/25/2008 12:00	1/25/2008 12:00	1/25/2008 12:00	1/26/2008 0:01
1/25/2008 3:45	1/25/2008 3:45	1/25/2008 3:45	1/25/2008 5:45
1/25/2008 15:00	1/25/2008 15:00	1/25/2008 15:00	1/25/2008 16:00
2/9/2008 10:24	2/9/2008 10:24	2/9/2008 10:50	2/9/2008 11:10
2/24/2008 10:30	2/24/2008 10:30	2/24/2008 10:50	2/24/2008 10:55
3/22/2008 20:11	3/22/2008 20:11	3/22/2008 20:25	3/22/2008 21:06
4/1/2008 12:16	4/1/2008 12:26	4/1/2008 12:26	4/1/2008 12:26
4/11/2008 7:35	4/11/2008 7:35	4/11/2008 7:45	4/11/2008 8:05
4/22/2008 8:54	4/22/2008 8:54	4/22/2008 9:30	4/22/2008 9:30
4/23/2008 16:35	4/23/2008 16:35	4/23/2008 17:00	4/23/2008 17:30
4/24/2008 10:40	4/24/2008 10:40	4/24/2008 10:45	4/24/2008 10:50
5/11/2008 12:15	5/11/2008 12:15	5/11/2008 12:30	5/11/2008 14:00
5/9/2008 16:15	5/9/2008 16:15	5/9/2008 16:30	5/9/2008 17:15
5/18/2008 11:35	5/18/2008 11:35	5/18/2008 12:10	5/18/2008 12:35
6/12/2008 20:15	6/12/2008 20:15	6/12/2008 20:30	6/12/2008 20:50
7/16/2008 8:25	7/16/2008 8:25	7/16/2008 8:35	7/16/2008 8:40
7/25/2008 10:27	7/25/2008 10:27	7/25/2008 10:35	7/25/2008 10:35
7/26/2008 16:30	7/26/2008 16:30	7/26/2008 16:40	7/26/2008 16:45
8/14/2008 16:00	8/14/2008 16:00	8/14/2008 16:20	8/14/2008 0:30
8/23/2008 11:52	8/23/2008 11:52	8/23/2008 12:05	8/23/2008 12:05
8/25/2008 14:31	8/25/2008 14:31	8/25/2008 14:41	8/25/2008 14:41
9/12/2008 10:45	9/12/2008 10:45	9/12/2008 10:50	9/12/2008 10:55
9/14/2008 17:20	9/14/2008 17:20	9/14/2008 17:35	9/14/2008 17:40
9/20/2008 8:10	9/20/2008 8:10	9/20/2008 8:30	9/20/2008 9:30
10/1/2008 8:58	10/1/2008 8:58	10/1/2008 9:12	10/1/2008 9:15
10/18/2008 10:54	10/18/2008 10:54	10/18/2008 11:14	10/18/2008 11:14
10/23/2008 8:00	10/23/2008 8:00	10/23/2008 8:03	10/23/2008 8:13
10/24/2008 13:45	10/24/2008 13:45	10/24/2008 13:45	10/24/2008 14:05
10/27/2008 11:20	10/27/2008 11:20	10/27/2008 11:30	10/27/2008 11:35
10/27/2008 16:03	10/27/2008 16:03	10/27/2008 16:15	10/27/2008 16:45
10/24/2008 13:45	10/24/2008 13:45	10/24/2008 13:45	10/24/2008 14:05
11/1/2008 14:55	11/1/2008 14:55	11/1/2008 15:15	11/1/2008 15:35
11/7/2008 14:00	11/7/2008 14:00	11/7/2008 14:40	11/7/2008 14:40
11/9/2008 19:30	11/9/2008 19:30	11/9/2008 19:50	11/9/2008 20:00
11/11/2008 16:44	11/11/2008 16:44	11/11/2008 17:00	11/11/2008 17:00
11/13/2008 14:15	11/13/2008 14:15	11/13/2008 14:25	11/13/2008 14:27
11/18/2008 8:45	11/18/2008 8:45	11/18/2008 8:55	11/18/2008 9:10
11/19/2008 9:20	11/19/2008 12:10	11/19/2008 9:20	11/19/2008 9:25
11/26/2008 9:48	11/26/2008 9:48	11/26/2008 9:55	11/26/2008 10:10
12/3/2008 9:15	12/3/2008 9:15	12/3/2008 9:20	12/3/2008 9:30
12/7/2008 12:45	12/7/2008 12:45	12/7/2008 13:05	12/7/2008 13:10
12/19/2008 9:15	12/19/2008 9:15	12/19/2008 9:25	12/19/2008 10:30
12/26/2008 10:27	12/26/2008 10:27	12/26/2008 11:25	12/26/2008 11:40
1/3/2009 9:38	1/3/2009 9:38	1/3/2009 10:00	1/3/2009 10:50
1/12/2009 9:28	1/12/2009 9:28	1/12/2009 9:35	1/12/2009 9:50
1/12/2009 9:15	1/12/2009 9:15	1/12/2009 10:00	1/12/2009 10:15
1/14/2009 10:20	1/14/2009 10:20	1/14/2009 10:30	1/14/2009 10:40
1/15/2009 7:40	1/15/2009 7:40	1/15/2009 7:50	1/15/2009 7:55
1/16/2009 13:15	1/16/2009 13:15	1/16/2009 13:15	1/16/2009 13:20

Debris
Grease deposition (FOG)
Grease deposition (FOG)
Rainfall exceeded design
Rainfall exceeded design
Rainfall exceeded design
Rainfall exceeded design
Rainfall exceeded design
Rainfall exceeded design
Grease deposition (FOG)
Grease deposition (FOG)
Grease deposition (FOG)
Grease deposition (FOG)
Grease deposition (FOG)
Debris
Root intrusion
Root intrusion
Vandalism
Debris
Debris
Grease deposition (FOG)
Debris
Debris
Debris
Debris
Root intrusion
Other (specify below)
Grease deposition (FOG)
Debris
Grease deposition (FOG)
Debris
Grease deposition (FOG)
Grease deposition (FOG)
Grease deposition (FOG)
Grease deposition (FOG)
Debris
Root intrusion
Grease deposition (FOG)
Grease deposition (FOG)
Grease deposition (FOG)
Grease deposition (FOG)
Debris
Root intrusion
Debris
Debris-General
Debris
Debris
Debris
Grease deposition (FOG)
Root intrusion
Grease deposition (FOG)
Debris-Rags
Debris-General
Debris-General
Debris-General
Other (specify below)

Lift station and system was overwhelmed by Inflow and infiltration.

Unknown persons placed a erosion control waddle into a sewer manhole which blocked the flow of sewage.

Three tennis balls in line.

Roots.

Unknown. Cleanout is owned by homeowner and does not meet City specifications. City crews were unable to gain entry

Newspaper debris.

lateral blocked by debris

Sewer/Jetter crew was attending to a blocked main. Sewer manhole overflowed once, during the clearing process.
Large root mass caused blockage.

Wet wipes.

Wet wipes.

Maintenance crew found a sur-charged manhole on their preventative maintenance route. Crew cleared a blockage in the

Main

Lower Lateral
Main
Main

Main
Lower Lateral
Main
Lower Lateral
Lower Lateral
Main
Lower Lateral
Main
Lower Lateral
Main
Main
Main
Main

Main
Main
Lower Lateral
Main
Lower Lateral
Main
Lower Lateral
Lower Lateral

Lower Lateral
Lower Lateral
Main
Main
Lower Lateral
Main
Lower Lateral
Lower Lateral
Main
Main

Spill was part of a previous SSO Cert#461138 . Id # 728485. Was noticed by San Mateo Co. Health Services Insp. Alan

lateral near cleanout.

4 Clay
6 Clay
6 Clay-Plastic
6 Clay
8 Clay
6 Clay
6 Clay
6 Clay
4 Clay
6 Clay
6 Clay
5 clay
6 Clay
4 Clay
4
6 Clay
10 Plastic
4 clay
6 Clay
6 Clay

6
4 Clay
Clay
4 Clay

4
4 Clay

6 Clay
Clay
6 Clay
6 Clay
6 Clay
6

6 Clay
4
6 Clay

6 Clay
4 Clay

6 Clay
6 Clay

6 Clay
4
4
10 Plastic
6 Clay

Dare and reported to our dep

60
55
8
55
50
50
80
80
55
90
80
60
50
50

30
10
60
60
60

60
50

50

58

60
55

55

10
80

Cleaned-up (mitigated effects of spill); Contained all or portion of spill
Restored flow; Returned all or portion of spill to sanitary sewer system

Cleaned-up (mitigated effects of spill); Contained all or portion of spill

SSO was during a small rain event.
Flow was restored when Inflow and infiltration slowed.
Flow was restored when Inflow and Infiltration slowed.
Flow was restored when Inflow and Infiltration slowed.
Flow was restored when Inflow and Infiltration slowed.
Flow was restored when inflow and Infiltration slowed.
Flow was restored when Inflow and Infiltration slowed.
Spill area was cleaned with Vactor.

Used Vactor to clean and in recovery of sewage.
Vactor was used to clean area.
Vactor was used to suck up and clean all sewage that reached the curb-gutter /storm drain.
Vactor was used to suck up all sewage from curb/gutter and storm drain. All sewage was recovered.
Resident advised that she would call a restoration company to clean house and recover standing sewage.
Vactor responded and cleaned Storm drain/curb and gutter. All spilled sewage was sucked up and area was disinfected.
City crew removed erosion waddle from manhole.

Vactor was used to clean area and storm drain mains.

Vactor cleaned area and recovered 150 gallons.

Homeowner advised to call a plumber to clear line or install a City specified cleanout. Homeowner advised to stop using v

Returned approx. 5 gallons of sewage to cleanout. Washed and disinfected area. Washdown fluid/water did reach storm
Used Vactor to clean area.
Vactor used to clean area.
Vactor used to capture approx. 100 gallons of sewage.
Cleaned storm drain basin and mains with Vactor.

Unable to clean area due to report being made several days later.

Used Vactor to clean area, and storm drain main.
Vactor was used to clean area and storm drain mains.

Vactor was used to clean area and storm drain main.
Used Vactor to clean street surface. Not able to clean storm drain main-no access.
staff discovered spill from lateral and contained spillage as well as drew up spilled amount with a Vactor
Vactor used to clean area.
Vactor was used to clean area and storm drain main.
Area and storm drain cleaned by Vactor.
Vactor was used to clean area.
Street sweeper used to clean area.
Vactor used to clean area and storm drain main. Area disinfected.
Disinfected grass around spill site.

Cleaned area with Vactor truck.
Vactor was used to clean area and storm drain.
Vactor used to clean storm drain and area.

1/26/2008 0:01
1/26/2008 4:00
1/26/2008 0:01
1/26/2008 0:01
1/25/2008 5:45
1/25/2008 16:00

2/24/2008 11:00
3/22/2008 23:42

5/11/2008 15:00

6/12/2008 21:00
7/16/2008 8:40

7/26/2008 17:00
8/14/2008 17:00

9/20/2008 10:00

10/24/2008 14:30

11/18/2008 9:40

12/26/2008 12:15

Plan rehabilitation or replacement of sewer

Other (specify below)

Other (specify below)

Plan rehabilitation or replacement of sewer

Other (specify below)

Other (specify below)

Added sewer to preventive maintenance program

Plan rehabilitation or replacement of sewer

Other (specify below)

Adjusted schedule/method of preventive maintenance

Added sewer to preventive maintenance program

Added sewer to preventive maintenance program

Added sewer to preventive maintenance program

Added sewer to preventive maintenance program

Adjusted schedule/method of preventive maintenance

Other (specify below)

Plan rehabilitation or replacement of sewer

Force main of station will be replaced as part of the upcoming Rollingwood Sewer Basin Improvement Project.
Investigation will be done on system to identify spill cause.
System in area will be replaced as part of the upcoming Rollingwood Sewer Basin Improvement Program.
System in area is will be replaced as part of the upcoming Rollingwood sewer Basin Improvement Project.
System in area is being studied for possible replacement.
System in area will be studied for Inflow and Infiltration.

Sewer main and system in area is being investigated for possible replacement.

Division will install a lock down manhole lid at the location.

Division will study the flow capacity of the existing lateral in relation to the number of units at the location.

Yes
Yes
Yes
Yes
Yes
No

No
Yes

No

Yes
No

No
No

No

No

Yes

No

N/A
N/A
N/A Unknown
N/A Unknown
N/A Unknown
N/A Unknown

N/A

N/A

N/A

N/A

No
No
No
No
No
No

No
No

No

No
No

No
No

No

No

No

No

N/A-unknown.
N/A Unknown
N/A Unknown
N/A Unknown
N/A Unknown
N/A Unknown

N/A
N/A

N/A

N/A
NA

Unknown.
N/A

N/A

N/A

N/A

N/A

N/A-unknown.
N/A Unknown
N/A Unknown
N/A Unknown
N/A Unknown
N/A Unknown

N/A
N/A

N/A

N/A
NA

Unknown.
N/A

N/A

N/A

N/A

N/A

Not applicable to this spill
Not applicable to this spill
Not applicable to this spill
Not applicable to this spill
Not applicable to this spill
Not applicable to this spill

Not applicable to this spill
Not applicable to this spill

Not applicable to this spill

Not applicable to this spill
No water quality samples taken;Not applicable to this spill

Not applicable to this spill
Not applicable to this spill

Not applicable to this spill

Not applicable to this spill

Not applicable to this spill

Other (specify below)

Two water quality samples were taken on 12-29-08. One sample was taken from the Walnut Station Storm Canal that sho

Not applicable to this spill
Not applicable to this spill
Not applicable to this spill
Not applicable to this spill
Not applicable to this spill
Not applicable to this spill

Not applicable to this spill
Not applicable to this spill

Not applicable to this spill

Not applicable to this spill
None of the above

Not applicable to this spill
Not applicable to this spill

Not applicable to this spill

Not applicable to this spill

Not applicable to this spill

Regional Water Quality Control Board

80828	1/28/2008 11:00
80831	1/28/2008 11:00
80833	1/28/2008 11:00
80836	1/28/2008 11:00
80838	1/28/2008 11:00
80841	1/28/2008 11:00

81562	2/25/2008 8:14
82258	3/22/2008 10:58

83420	5/11/2008 14:10
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84196	6/12/2008 21:18
85488	7/28/2008 10:45

85461	7/26/2008 17:22
85929	8/14/2008 17:05

86853	9/20/2008 9:53
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87689	10/24/2008 14:59
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88281	11/18/2008 9:17
88321	11/19/2008 13:15

89156	12/26/2008 12:01
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